

Ans'd Jan. 18) Melbourne before
My dear Gray 26 Sept. 1860

This will introduce
to you my friend Mr. Turnbull -
Consul at the Havana. - He is
very anxious to advance the
cause of Science in every way,
and will, I am sure further our
favorite pursuit by all the
means in his power. I can
be of great service to him by
advising him in botanical
matters, and I think I may be
bold to add that he will repay you
in kind. I had the pleasure
of a letter from you about six
weeks since which I waited
very shortly to answer - sending
you at the same time as complete
a set off my duplicates also

as my means will furnish -
I do this - not only on your own
account - but likewise on account
of your friend Professor Bailey
who I know is much interested
in marine plants - I have but
no time to add anymore, save
that my wife & I are quite
well & write with me in kindest
regards. Believe me ever to
remain

My dear Gray
Yr affectionate friend
N. B. Ward

4
Paper on any micro-organism
whatever, I shall feel delighted
in reading it to the Soc. S.

I had hoped ere this to have
published my little Essay on the
Growth of Plants in closely gl. Case
but I cannot find time to put
such paper & I really find the
task rather difficult to write
a book which shall at once
satisfy the unlearned & not be
tedious to the scientific part
of the community. The little page
is however completed, there it
follows for your edification:-

Observations
on the Growth of Plants
in closely glazed Cases

by N. R. W. F. L.

under 1000 words.

If you can think of any better
title, pray let me know, as I

Am. July 24)

My dear Gray.

Wadsworth

6 March 1860

Yesterday rec'd. the
packet containing the Enclosed No.
Anthonia lobata Han. a copy of B. & S.
dated 11. Dec. - When the plant
has been all this time I know
not. Your most welcome packet
of the French Enc. plate 74 for
several weeks ago and those
have replied immediately, but I
had been anxious to send you
something in return. My time
however for the last 3 or 4 months
has been so incessantly taken
occupied in the dull & monotonous
routine of medical practice, that I
have scarcely been able to look
at a book. I am extremely
obliged to you for the plant you
have sent, several of the species
are very interesting & will be new
to me. Your N. Goldmann is

2 particularly acceptable, as it is
very distinct from my *S. lamarckii*.
You will receive with this inc.
the duplicate *Passaea* & *ppp*.
many of them of course will not
be of any use to you for your
Herbarium, but I thought they
might be serviceable for distinction
on the microscope. In my future
packets you will often receive
specimens of plants which I
should not send to any but a
Botanical Professor as they
may be of use to your Pupils
if sent to you - I meant this
time to have added my duplicate
Algo to the Mus. but must
reserve them for the next, as I
am just now sorely pressed. I
send you however, just to excite
your interest - one or two lovely
scraps - one a new genus, named
Bullia by Harvey from Ceylon
another a Deltaparia in habit,

Balt. Amansia is structure remarkable
for its regular rows of 6-sided cells.
This plant is the *Deltap. albo* of the
Harvey - & a third - *Diatoma*
obliquatum - These three are
all beautiful microsc. objects
& the 1st & 3rd will well bear the
highest powers - ~~dated 21~~
There is a little scrap of *Thamno-*
phora Telfairae from the Isle
of France, having upon it a rare
zoophyte - *Akinocyclis multibranchiata*
which is a splendid object, when
viewed with direct light -
Our Microscopical Society is
going ahead in fine style -
We number now about 150 mems.
& the President of the Royal Soc.
has signified his intention of
joining us - We mean to have
a regularly arranged collection of
objects, which will of course
subsume the whole organic &
inorganic world. Something
from you see, in our Museum
that interests us in any way & we
will if you will send me an

5.

Indian toad of a Lizard.

Sept. 5. 1850

Since the 4th was written, today is sending it. I have now added to my herbarium, 2000 species, in consequence of so soon having been taken into the system, having a small wound of 2 x 1/2 in. I am still exceedingly weak, but there is still a risk that I shall not be kindly treated again - & shall be going to the country in the course of a few days where I shall be concealed for some weeks. My dear I have braked up the vegetable regions of North Cala with flying colors, so that we will be enabled to obtain a plant for a time. Please let me hear from you soon, as I am anxious. Give me the greatest pleasure in your well-being.

My wife and family all unite in sending regards. I believe we need no more of my dear Gray's

best & dearest friend

W. B. Ward

do say you will be in time.

I have agreeably to your wish, enclosed rather a long list of species by the Amer. Pers. Many of which I am quite aware, will not immediately be within your reach. When you are ready enough to put up another packet of plants for me, pray send me all the *Alys* & cryptogamic plants of my kind that you can spare. I have for you

descriptions of a number of species of Pers. & other things for your Microscope. Many of these you probably already possess: but may be affording exchange with others.

I think when you were in England you mentioned to me that your friend Professor Bailey was anxious to obtain as many correctly named *Alys* as possible. Now the best way to accomplish this end will be to send to me as complete a

set of the American Alge (numbered
for Mr. Griffiths of Torquay, to
whom I have already written
upon the subject, who will I am
sure not only correctly name those
of which the Professor is in doubt
but likewise give him in return
specimens of British Alge -

My friend Harvey too, would I
am sure be glad to correspond
with him upon this, or any other
Botanical subject - indeed, I
should have wished Harvey to have
had a set of the Alge sent to him
at first only - that he is now
uncertain in his movements & he
might possibly be off to the Cape
very shortly - He will I believe -
undertake his work upon the British
Alge before he leaves - - -

I yesterday rec'd a letter from a
Mr. Heath, a Missionary who has
been settled for the last 3 years
on one of the Navajo Islands

He informs me that the grand objects
of the Mission were progressing to
his satisfaction - Churches were
erected - Schools established & a
printing Press in full work - I
had endeavoured to impress upon
the mind of Mr. Heath, the great
utility, or rather the absolute necessity
of attending to the natural products
(of particularly the Botanical) not
only as a means of adding most
materially to the comforts both of
the Missionaries and the natives,
but as the most efficient way of
leading the infant Savage mind -
to the knowledge of a Great just
Cause - His advice I am happy
to say, he has followed, and has
prepared for me an Herbarium of
the native Flora, which will be
sent as soon as a convenient
opportunity offers by the Capt
of some Whaler Ship - Many of the
Leaves & the Fructifications he tells me
are quite different from those in

My dear Gray

Wellaloe 17th June 6 Web
1851.

I have this morning sent to Mr. Wiley
& Putnam a package containing all the Diphyscia
spec. I need number, and as these you wanted
them chiefly for the purpose of determining some of your
American species, I have been careful to send you
good & characteristic specimens. Many of them indeed
are better than I possess in my herbarium, but that is
of little moment to me as I can easily procure others.
I am very much obliged to you for your ferns, which
are apparently in good order & have planted them all
in my fern houses, but I shall be able to give you
a better account of them in another month or two,
when the new fronds begin to be developed. I am
afraid that the *Lycopodium. cicutarium* has not been
taken up with sufficient roots, so that it is doubtful
whether I shall save it. I am very anxious to have
the *Hydrolycopodium paucifolium* and all your *Lycopodium* particularly the *L. dendroideum* &
(what is called) *L. obscurum*. If these be within your
reach, pray send me a good lot. We have had one of
the severest winters ever experienced, as I have had some
trouble in saving my *Marattia zebrina* & one or two other

in dermatological plants. The former has been repeated by
as low as 110°. I have not been able to attend much to
Botany since my return home - in fact I have had enough
to do to get up my poor way & my health moreover has
compelled me to avoid our local scientific meetings. The
Linen goes on as drowsily as ever. The Brixtonaspirine
larch happy to say now masters 170 stems & I think will
eventually become one of the most interesting societies in
London. Had a party at my house this last week
back in honour of the learned Theodore Vogel who is
about to accompany the Buxtonia (Linxotin?) expedition
to the Niger as Botanist. The flowers varied from
60 to 1500 linear thousands thickness were the objects
exhibited. We had numerous fine whetstone injections &
among them, & as fine as any of them - one of the capillaries
of the cheek made a century ago by the celebrated Lieberkühn
There are indeed such preparations in the College of
Surgeons, which belonged to the celebrated Hunter - each of
them mounted on a separate microscope. Saw Berrett
a few days ago, and he begged me to remember him most
kindly to you & to say that, as soon as he rec'd specimens
deemed worth offering - an venerable old friend Mr. Hales
is quite well but he has sustained a most serious
 bereavement in the death of his companion Miss Brown

his late wife's sister, whom you know & who lived with
him from the period of his wife's decease - His great
love of plants however still continues & will serve to
heighten many a weary hour. - Larrey is now at the
Cape, working away as vigorously as ever. He is still here
in the last that he had just returned from a journey of
to the summit of Table Mountain & that he had discovered
a series of habitation of that rare & beautiful endemic
plant the Disa grandiflora - enough to supply all Europe
Eric this he will, if nothing has prevented, have visited
Holland & Holland where he expected to make a great
journey. He will I doubt not spend his time most
pleasantly at the Cape as he is not now compelled
so frequently to be in Cape Town twice a week without
fail. This enables him to make much longer excursions
than he was enabled to do on his first visit -

Pray let me have from you soon & give me all the botanical
information you can - as nothing tends more to support
and live me under the most anxious & sometimes weary life
my profession compels me to lead. My wife & family
are all I am delighted to say & unite with me in the
kindest regards & best wishes & believe me ever to
be & Your sincere friend
N. B. Ward

1^o and 2^o class
in 2^o class
Aug 1st, 1841.

My Wife & Family beg to concur in sending their regards & best wishes to & believe me ever to remain - your son's friend. N. W. Mor
My dear Gray 27 March 1863
Ans. Day 11th of May let me hear from you soon -

When I rec'd. your last kind letter, I immediately executed that portion of it which related to an interchange of plants between you & Lodiges. I should have certainly replied to it at once had I not been occupied with business, which caused me to defer it from day to day until a more convenient season, which however came not. This hurried life continued until about three months ago. I was attacked with a most severe affection of the right sciatic and sacral nerves, which completely crippled me & confined me to bed for nine or ten weeks. I am only just recovering, and take the earliest opportunity of informing you that I am not unmindful of your kindress. I have of course not been able to pay much attention to botanical subjects, my time for the last three months having been completely taken up by working at my mother's labours. This however gives me greater relief or more pleasure than the occasional letters which I have received from you & other kind friends (would that they arrived more frequently). Among these I have lately received three from W. L. Linn of the Exeter - the one - filled with the results of his microscopic examination and description of insects, and the other containing a lively

description of the vegetation of Terra del Fuego & the Falklands. I cannot do better than copy a portion for your amusement. Our stay at Cape Horn was very pleasant though there was a good deal of snow & wind. The former often preexisting, now collecting on the hills. I collected in the woods, which really contain far more species than I could have believed. *Leptostomum heterizii* is a tree in the market so common that I hardly gather specimens enough. The noble *Polystichum dendroid*, but very rare in f. & two or three other spec. The Lichens & fungous most abundant, especially *Cladonia*. The woods are formed of the two Beeches, *Pinetaria*, *Eucryphia*, *Betula* & a few others of smaller stature. Not having seen vegetation properly calcined for a long time, I was delighted with all I saw & filled a fine case with the trees, shrubs & many alpine plants to send home. Unfortunately the season was rather too far advanced for the trees. A few of the poor Fuegian webera used to come down to the ship but they are so indifferently described by Darwin, here, & Tittoroz, that I can add nothing to their accounts. The botanical features of the Falklands were unknown totally at variance with those of Fuegia, though enjoying perhaps a very similar mean temp., or if any difference, perhaps a saloon of the Falkl.; & yet Fuegia is limited to a degree unknown in Scotland & even in a south as 58° the veg. is so luxuriant, that the earth for 100 ft. upward, is covered with a dense mass of foliage on all the sheltered shores. This diff. depends on the soil, the formation of the land - the diurnal variation of temp. & the pressure of the atmosphere in the Falkl. presenting a most remarkable contrast

to those features in Fuegia. Red flinty, very stiff & good clay invariably is found in the Falkl. under the peat, never more than 3-4' do. & on it the peat rests, this clay overlying either the granite rocks, sandstone clay slate. The land is all low & flat, rising only a few low undulating ranges of hills, enclosing broad valleys, only on the Duran districts. Shelters where to camp.

The Therm. after during summer rises to a temp. of 60-70° & drops to 32° or under & from the atmosphere being more often clear at night & day than in Fueg., the sun's rays have more power & the effect of cold produced by nocturnal radiation from the earth much increased. The vapors of the Atlantic brought by the west winds are prob. all deposited on the higher mountains of the West Island for here.

(Bukely Sound) their dryness is wonderful & such as I have not experienced nowhere else. After passing this month (Nov) a mean r. 15-20 degrees - several times 26-28 over 32°. but of difference, I have found to intervene betw. the temp. & rain & that a thick mossy wood is precipitated. Red to dark. The vapor effect of the sun would by no means suffice to see how desiccating. The effects produced on land cannot be well described.

Parallel walls are favorable to the ripening of fruit in islands because they, by cutting off from the face of the fructiferous winds a portion of the heat of heaven, prevent the radiation of heat during the night, and by increasing the depression of Fuegia afford an immense shelter to its trees. The veg. of the Falkl. are at once concentrated on its banks. There the sun & the air is constantly clouded, that I never get more than 6:30 am & 6:30 pm. the therm. in a parabolic reflection of the shaded areas at night, and that on 2 or 3 occasions. The walls are exposed to all the moisture & wind deposited by the mountain torrent. & the evaporation is effected by

the sheltered sides by the force of the sun's rays, never venturing
seldom from the steepness of the hills bordering their north
slopes, and almost always seen through a slight mist, & as
the slightest cloud prevents solar radiation much light appears
unobstructed. The wind cannot enter these valleys, except in rare
repulses always, or generally, far accompanied by rain & thus can-
not aid by carrying off the vapourised moisture. All this tends
to cover Thesnia with wood, and make its valleys teem with
Cryptogamia, and as the mean thermal temp. is little above the

Dr. Gray



9

mean Polar - an evergreen vegetation is looked for. These
antarctic climates have no parallel & no analogy in the
world & thus every feature connected with the geography of their
plants is of the deepest interest." I know not whether I have
yet thanked you for your last book & your kind loan of
one in it - With the book I am delighted as it contains the
essence of Lindley's two bulky vol: - You will be pleased to
hear that the *Musa Cavendishii* has been introduced into the
Voyageur Islands by means of my flased cases, and is flourishing
wonderfully - At the great & height of the natives

My dear Gray

Welldone sphere - Thomas M

This happy season of the year generally collects together all old friends & recalls more forcibly to mind those who are far distant. You must not - however, imagine that, during the past year I have - quite forgotten you - on the contrary, I have continually reproached myself for my neglect, but would not trouble you, while I send accompany my letter with something more substantial than words. - You - happy man are - free from the constant worry & occupation of medical practice, and know not what it is to the full extent - the complete & absorbing engrossment of every moment of a Gen. Pract. & friend, I know very little - Dimbster is far any - pursuit - not strictly, the spiritual - I must not - however and will not complain, I am far better off than $\frac{9}{10}$ of my brethren, and, as my sons are now rising in repute - have some prospect of being able to devote a little more time to health & to botanical pursuits. I have, this year, enjoyed a very great treat in traversing some of the most interesting portions of Ireland in company with my friend Harve. I need

not tell you that, with such a companion de voyage, I need not fail to reap much information & delight. The state of Ireland is a perfect opprobrium to any civilized state. I question whether any of the tribes of poor Indians are half so wretchedly off as are these degraded & ignorant creatures.

To compare their condition with that of the beasts of the field in the forest would be a libel on the animal creation. The sepulchral monotony of their rude stone or mud cabins is past belief. We traversed nearly 600 miles of ground everywhere finding the same utter want of comfort & cleanliness, and as to decoration or relief of any kind, such a thing never for a moment entered into their heads. Throughout England, the places in general form the most pleasing portion of the landscape, decorated as they frequently are, with roses - sweet briars - honeysuckles &c. but here (with the exception of two places) the total amount of superfluities in & about the thousands of cabins - was - one rose - one jessamine - one or two wall-flowers. A couple of bird cages - think I am speaking of that portion of the country where the R. Catholic religion is dominant. In the north of Ireland things are much better - I was exceedingly delighted however with the superb luxuriance of the cyprean vegetation at Killarney - *P. hypolephyllum* Wilsoni & *subindus* abund-

antly mingled with innumerable species of *Urticaceae* and we found one specimen of *Diachlorus speciosus* - or *radicans* - assuming a really tropical appearance - a portion of its creeping rhizome about 12 inches in length possessed twenty perfect alternating fronds. - Harvey is getting on well with his *Thysanoptera* but the colourer does not do justice to his figures. You have of course heard that Harvey is about to publish descriptions of all the Australian flies with figures of 100 of the most remarkable species. Can you help him at all in this matter? - Meantime I am most thankful for any

news - I must say a few words respecting the content of a case I have sent you by the Berlin. There are about 1500 species plants & such a motley & heterogeneous group, I will venture to say, you never before received. I have not the least idea that more than a fourth or fifth of this number will be valuable to you, but I thought from the position you hold they might be acceptable for the purpose of distribution. At any rate, I have sent all I could, & were I as rich as Croker, & could afford, like him, to purchase the collections of travellers, I might have been able to have sent you something more worthy of your acceptance. As I wish to get as many specimens in the case, as possible I have not tied them in separate bundles, but in successive layers so they will take a little more time & trouble in unpacking, as each specimen must be taken out sepa.

rted. - I have sent you for your garden a few seeds which I have just rec'd from the Bot. Garden, Sydney. - My closed cases are gradually clearing of all clippings of the community, and have been recommended in a official

report to Government by the Health of Towns Commission as one
means of improving the condition of the labouring poor. I have
seen several pleasure comment from members of the working classes
in various towns in England but I am very anxious to obtain
one report on the use & application of these cases from your country
men. I have, therefore, taken the liberty of enclosing a dozen
copies of my little work, which you will greatly oblige me by
giving them to those who feel interested in the matter. I hope

Dr. J. A. Gray
Prof. of Natural History Soc
Harvard University
Cambridge, Boston
United States.

Dear Dr. Ward

D. Bigelow will not think me presumptuous in offering him a copy.
Two or three months ago, I was favoured with a visit from Prof.
Kjellin (son of Octavia spicata) of Stockholm, Prof. of Surgery & of
Gynaecol. Sec. 5 of the Acad. Soc. of Sweden, a high body. He has had
the honour to be elected a fellow. — I believe I have had the grace
to thank you for the D. Ed: of your admirable text book. It is a
most useful & excellent work. My wife and family are I am happy
to say well and all who know you, write with me in wishing
you many happinesses of the season & believe me ever to be
My dear Gray Your affec. friend N. B. Ward

My dear Friend

6

Captain Rice 3rd Miles
of London 29 Downing.

Sorry much friend that long are this -
you must have given me up - or - all agreeable imagined that
I had quite forgotten my old friends. The fact is that since
last winter some changes have taken place in my family arrange-
ments - which have so completely occupied my thoughts & red me
attention that I have not paid that attention which I ought to
my old valued correspondents. - My elder Son D. L. C. married
in April last - his now living at the red house in Melrose Sqth
& I have removed to my present a corner within reach of most
of my old patients & with the prospect of many new ones - from
Leicester - can furnish you with the days. I am obliged for
the sake of my children to cultivate the acquaintance
but I have thank God - many interesting blessings & amongst
not the least of these is a small garden with tolerably fine in-
wheel roses well trained & in which I have built a clore house
about 30 ft. by 16 - in which I have built up my antediluvian
plants & which of course - I intend to make one of the wonders of
the world. These however, about my capabilities are infinitely
greater than they were in the old habit - as indeed after the sun
never shone in for five of the winter months. Whereas now I

I have an unlimited supply of solar light - which enables me to cultivate amidst my Palms & Ferns - a vast variety of flowering plants - such as Begonias & Cereus - Gloriosa & various species of Philos & Billbergia - *Dorea* *Lupina* *Thunbergia* & *Wrightia* - in the author case - without artificial heat. I am growing a number of N. Amer. ferns & fine plants - which were sent to me through a friend from Dr. Gilman - amongst these are *Asplenium* *Acidium* *Bolbitium* *oblongum* *virginianum* - *Lindsaea* *curtisii* - *Lancastriensis* - *Woodwardia* *oculata* - *Ash. novae* - *Aspl. angust* & the *Epiphylloides* - *Goodyera pubescens* & *leptophylla*. You could not oblige me more than by sending me any seeds or roots of American plants - that may be easily acclimatised - you as I have no means of introducing them into England or supplying them with your material using the best solar guides - shall - with the greatest pleasure defray all expenses of transmission -

Cannot tell you how much you have added to my delig. Its indeed
most valuable works on W. Art & Story & more particularly after
the illustrations of the Queen - The plates, in this work are most exqui-
site & have made, me quite long to have a copy of the book in a
binding like about the size of a 12 mo. - As I have a splendid large book
in my big house - I should like to buy the N. & S. & Steam in yon
which it would grow - & the N. & S. & dollars or any other as you see -
My price however will be acceptable - when will be intending to
visit condor? - My wife begs me to say that we can now a comfortable
one with a bed and I need not add that we expect her road to
allow our horses to make up to the top of the hill during mon-
day & we think of mounting first our plate to commercial gas engine
box as Prinibus, & so to our door continually to all parts of
London - from us over & bridge every ten minutes - My second
son - 10th, is now to be married & will be going on to the London

Stockholm, which is the first in England for surgical practice - more than 9000 accidents were treated there in the course of last year. Mr. H. has not been the house surgeon to the active surgeon to that I may consider now as really called "Independent" Surgeon - -

The Gardens at Kew are progressing most satisfactorily under the auspices of Mr. Wm. The large Palm house is now nearly up - but a question whether Mr. Bulle will not think that he pays rather too dear for his whistle. Great expense has been incurred in removing some points of faulty construction. & considerable doubt was entertained whether the heating apparatus - which cost upwards of £600 - would effect the desired purpose. The consumption of fuel is very great & the mere cost of removing the plants to their new resting place has been great - Mr. Wm. told me - that £100. was spent in the transportation of two only of the Palms. It is true they were the largest - one of them retaining its tub - weighing 13 cwt. the other 16 cwt. The museum is becoming a very important addition to the Gardens & is daily increasing - The whole Collection will shortly be one of the finest in Europe & Harvey was quite well when I last heard from him. He is going on with his *Physiology* & his lecture at Glasgow give general satisfaction - He had an extra course to give last year at Limerick - He is now about a new popular work illustrating some of the most interesting objects found upon our sea shores - a work which may perhaps dispel some of that.以便他能更清楚地了解我的意思。他說：「請你不要跟著我，而要自己走自己的路。」

of health & happiness to the good & honest
Believe me Dear Sirs ^{very} & ^{affectionately}
Your affec. Friend
N. B. Ward

Dr. A. A. Gray
Bentley's Natural History
Standard Brunnings - Can orange
Massachusetts. Collected



My dear Gray

Clapham Race

23 April 1859

I have again to thank you for a very interesting addition to my Botanical library & for your introduction to your friend Mr. Cunningham whom I regret not having seen much more of - but I trust he will one day favour us with a longer visit. Called on Parfitts agreeably to your request - for the purpose of showing him up - & of securing you the books you desire. He told me however that he had only sold 3 sets copies of the *Chloris* - (the rest he has sent to me) & that you were indebted to him - as according to his account - £ 27.0. Under these circumstances, I have not of course bought you any books. Will you kindly let me know whether

This balance be correct. So whether I shall
settle it for you - Be assured - that I do
not ~~be more~~ ^I pleased ~~the more~~ than by executing
any Commission - or working in any way
for you. - Perhaps you may think of
some parties to whom I can - in your name
present the Chloro. - I'm of course
have heard of this of Harvey's intended
visit to America. - He is going to give
lectures at Boston. - Wish it were in
my power to accompany him - but my
writing days are over. - Nothing however
could have afforded me so much pleasure
as to have visited the land of your birth
I paid by personal respects to the first
of American Islamists. - My new
house is beginning to excite the admiration
of my money-getting neighbours who
for some time now I really begin to think
that there were more things in earth than they
have dreamt of in their philosophy

envelopes during the formation of the fruit and seed in *Mirabilis*, *Elæagnus*, *Morus*, *Fragaria*, *Anacardium*?

10. Enumerate briefly the principal diseases to which plants are subject, their causes and probable modes of prevention and cure.
11. Define the term *species*.
12. Give the characters of the classes according to the Natural System.
13. Give the characters of the orders which furnish us with *Ipecacuanha*, *Rhubarb*, *Jalap*, *Belladonna*, *Opium*, *Peruvian bark*, and *Sarsaparilla*.
14. Describe fully the plants numbered 1 to 4.

Replies were - *Ricinella*, *Parmentia*

Reseda luteola
Primula lutea

N. B. WARD.

Thlaspi, *Primula*

My dear Gray Apothecaries Hall
1 Aug. 1849

Am I perhaps aware that the Cncl. of Apothecaries give prizes and to the Students who attend the London School of Medicine & that I have had the honour of being for the last 10 or 12 years the Examiner there am I then, unaided by you who are wishing me to my questions at Bath. They set themselves to work, and I am really astonished at the amount of information they possess on the subject. If you have such examinations in your University you would much oblige me by sending me one or two of your papers. — — — My friend Harvey

lived with me on the N. Plat month & is I suppose by this time in America. I feel assured that he will not discredit your kind recommendations — I know of but few who possess such close (arising from knowledge of Doctor) as he does. Like yourself & my friend Mr. W. He loves Doctor for his own sake & finds in it a great reward. — I cannot tell you how your kind invitation to join Harvey at your house & accept of you to Niagara has dwelt upon my mind & filled my thoughts. I sometimes my sleeping thoughts could I have acted selfishly without regard to others in the matter. I would most certainly have joined you with my wife, out duty steps in bags — it is impossible. I must therefore content myself with hearing of — as I cannot be a party to your proceedings. I expressed that I am have my best wishes & forever happiness sweep this world (an afftd you. — My wife & I look forward with much pleasure to a visit from you & your lovely lady. — We will use our best endeavours to make you happy & I assure you will not find the slightest inconvenience in being so far out of lead as we are within a stone's throw of each other.

of the great metropolis but a brace $\frac{1}{2}$ of an hour from Her, which is now under the auspices of Sir W. Sloane - becoming, worthy of England. The old physick Garden - beneath a century & a half ago to the Soc. of Apothecaries & which had lain dormant a number of years - is now lifting up its head & becoming a source of great information to those day students I am now examining. It occupies the great merit of being within their reach & I am most anxious to render it as useful as possible. I have enclosed a list of the desiderata of this garden & shall be much obliged to you if you can assist me - either by roots or seeds - in supplying their wants - & I think upon public ground that the Chelsea garden supported as it has been - since the days of Sloane - by our Govt - at an expense of from 600 to 800 a year - upon such stony ground deserves encouragement & support from all well-wishers to the cause.

Can you by the bye - give me any information with the improvements made of the Polmaise hot water system? - The Polmaise has ad faulted with us in one of our new houses. We have been compelled to replace it with a hot water apparatus - May I be allowed to remind you of your kind promise to lend me some

ferns - have a large acre especially allotted to them from N. Am. - had good success with *dendrobium* & *Scutellaria* - *Cantharoma* &c. I have with great pleasure that I opened the first portion of this note to the recent - I have had so much idleness at home & abroad that all comes - has less & less to do with W. Ward has been most severely ill & before long has been at Denbigh with infl. - *Castilleja* are now fresh & brightening - Please do my well - *With our undivided best wishes -*

EXAMINATION PAPER, WEDNESDAY, AUGUST 1, 1849.

Believe me HOURS FROM 10 A.M., UNTIL 6 P.M.

Early in day Yours affec^r N. B. Ward

1. Describe the structure of starch granules, and name those plants, or families of plants, which are distinguished by granules of peculiar form.
2. What are the characters which separate *true* from *adventitious* roots?
3. Describe the normal and abnormal structure and mode of growth of dicotyledonous stems.
4. Name the various structures which have been described as specimens of *arillus*.
5. Describe and give examples of the various kinds of *vernation*.
6. Illustrate the importance of a knowledge of those laws which regulate the geographical distribution of plants.
7. What do plants live upon?
8. It has been ascertained that many plants, such as ferns, cactuses, &c., if planted in duly moistened mould in glass vessels, covered with oiled silk, and exposed to light, will grow for ten or fifteen years without fresh supplies of water. Give the *rationale* of this mode of treatment.
9. What are the changes which take place in the floral

W. Ward

My dear Gray

Clapham Rise
3½ Miles S. of Gracechurch
Street London Bridge

13 May 1853

I have this moment heard from
Harvey who has just arrived at Liver-
pool in good health & spirits after a
pleasant voyage of 13 days in the new
steam ship the Atlantic. He tells me
that you are about to leave on the 5th
of June for England. I imagined that
you were not to have left until the
end of the month - or I should have
written you earlier - but the cause
of my delay has been the very uncertain
& at one time, dangerous state in which
my dear wife has been during the last
five or six months. I am however
most happy to tell you that - during the
last two or three months - a most favor-
able change has taken place - all the
severe symptoms have past away & our
prospects for the future are most encouraging.

Yrs. sincerely
John Harvey
13 May 1853
Opposite Nine

By the time you arrive in England, I
trust she will be herself again - Be
writ to me again in regard to you
Dr. Gray to consider our house as your
home for as long a time as may be conve-
nient & pleasant to you - We have now
always a spare bed & pray tell Dr. Gray
that should she be freed from the effects
of the voyage - or from other causes - My
wife & Daughters are most excellently
housed & would be but too happy to
minister to her comfort in any way.

You must not consider this as an
idle compliment but take it as it is
meant if you cannot confer a greater
pleasure upon us - I have to
thank you again for your kind & interesting
most beautiful ferns - I know well
how I can make you impressions - but you
are one of those who feel with one great
fact - that it is more blessed to give than
to receive - My plants are gone on
most beautifully - although I have but
a small garden it will soon be very well
filled - Thanks to the kindness of my friends

and you - I shall be enabled to enjoy
my botanical pursuits a little more as
I have had a very handsome legacy left to
me by a dear old friend - whom my father
first attended seventy-five years ago
who - during the whole of that period
has been a most warm friend to our family.

The *Divisa* & *Physcomita* taken when
Harry sent me in the winter are growing
most splendidly & I have a glorious
specimen of *Dicksonia antarctica* which
is the glory of all cultivators of ferns.

With I must conclude as I am
anxious to send this off to London -

All the rest of my family are quite
well & write in best wishes -

Ever your affec't. Friend

N. D. Ward

N. D. - When you arrive at London
Bridge - a cab will bring you to my
house in 25 or 30 minutes - & do not
hesitate to come without previous
announcement - as you will find us always
ready to receive & welcome you

were in a dormitory state wrapped up
in a lot of oil silk for 2 or 3 weeks,
but pray give myself no concern about
it.

He has written in best wishes
for the continued health of yourself
Dr. Gray with our kindest
regards to her -

Believe me Dear Dr.
Your affec. Friend
N. B. Ward

My dear Gray Chapman River
Augt 10th 1853
I have just rec'd your 2nd letter
dated the 1st of August & must in the
first place apologize to you for not
having transmitted your letters earlier
but I thought I was fulfilling your
request that they should reach you
by the 10th of this month. I will
repeat I understand your last instructions
to me & noted them down - I
dispatched them on the 8th & will
forward you any others that may arrive
according to your wish - Do you want
if they arrive within 3 days - but
especially to Belize - We were all
much concerned to hear that Mr. Gray
had been suffering so much from his
eyes, but I trust that they may be quite
restored before you leave - However as
there will be so much solicitude for
you in your future preparations -

Left Mrs. Ward with Mr. Darbridge-Wells & am happy to say that she continues to gain ground - having been out every day during the past week.

The Galloway Country is most beautiful & picturesque - always set in Sandstone rocks - the favourite habitat of *Synaptophleum herbaceum* which is still to be found - as hitherto the annual depredations of collectors for Pen-cases. - I am just now very busy with medical & other press.

And I am moreover preparing my examination papers for next week.

Left you - as a specimen - a bit from *Leucosia* - which you perhaps have not work with - *Singulis* - give Cector Leopold May in glob. not the *Terraculos* product of ordov. & sepa inter se coherent mirabilis, & a mutuo officio conservationem effectant perp. man' Mycen have to illustrate this

preface by pointing out the characters & dependencies of the vegetable kingdom.

One of my friends whom I hope will you to know as joining in -

Wiltshire - Mr. J. Jackson is now living with a brother at the Hotel at Staatsachen - his horse having fallen over a precipice on the descent of the Wengen Alp. Mr. J. felt the earth giving way & managed to get his feet out of the stirrups - caught hold of a bush in his descent & was brought to a ledge of rock - He sole was killed. He is accepted by his kind friends & relatives Dr. & Mr. Weavers. - Kind you will Staatsachen - pray see them at the Hotel & give all our kindest best regards to them. - If you meet with

the Woodias - the Asp. known in Hallin or the *Synaptoleum* *Leptophyllum* - and you without much trouble bring me a root or two - I think that they would be very

Thank you for your interest. It would profit me to hear from you again.

My dear Gray

Clapham Rice 1. Sept 1855.

This is the thirty second anniversary of my Wedding day. May you & your good wife have as much reason to be joyful & happy as when you have lived together as long as we have. I returned yesterd. from a visit to Selborne & Alfr. Tansy with Mr. & Mrs. Green & spent five or six days - with so much delight seeing Nature in company with Dole & Garrett - is equivalent to the possession of a red leisure. I have learnt more of the manners & habits of Birds & other animals than ever possessed. For as cannot communicate such knowledge. Bellis indeed a worthy successor of Gilbert White. Possessing far more general knowledge with the most active habits of benevolence & considerable medical knowledge he is truly a blessing to the neighbourhood in which he resides - the more so - as no medical man resides within 6 miles. - Yesterday the L. Club met us at Guildford & we had a long walk over the high bank an elevated ridge of land - dividing the beautifully undulated country between London & the South Coast into two nearly equal portions raised Buff to give commanding views of every interesting point. My wife continues to improve & goes often with me & twice to Mr. Gray & myself & Bellis me ever Affec. & yours V. D. Ward

For Hand
Stephen R. 1852

104



Dr. Asa Gray
Munich
Bavaria



472

[Autumn 1850]

Mr. Head.
Fontham -
Norfolk.

My dear Gray

Ceylon -
S. Asia.

I was at the Liancar
Ball last evening. I left the good wishes
& condolences of the pillows. I could
see you on your legs again. You
would very soon be with us. I
have the pleasure to inform you of the
special regards & good wishes of
Brown - Brewster & Wallich &c &c

We had rather an interesting meeting.
Four young Germans were present
who had spent several months on
the highest elevations of the Sikkim
& Peguian Alps for the purpose of
more accurately investigating their

physical condition. They have described many new Lichens more other plants &c & have published the result of their researches in a large volume which was presented to the Socy. One of them in very good English gave some interesting observations upon the subject.

The great exhibition or the world's fair as upon Countrymen call it divide the attention with the Memphis & supremacy of the Pope.

With respect to the first every endeavour is making to render it as interesting as possible.

Moreover a manual is preparing as a Guide to unassisted foreign visitors specifying of course in

science or art in or near London. The Duke of Devonshire had his at Chiswick - was with me the other day to Stain a new & closed house to be inserted in his Guide - as shall I make up an addition to my new book. Must put my house in order.

I must however now wind up for the present with our best hopes & wishes for your speedy recovery. I pray recollect that my house - is ready for your reception whenever you can make me fit - & that we have plenty of Natives to wait upon you & assist Mr. Gray.

My wife & I daily sent them kind regards. Ever yours truly

J. B. B. & C.

My dear Gray

Captain Dines
31. Oct. 1850

Dear Friend
Captain
Oct. 30. '50

I have but little to tell you -
to tell you - save that my dear wife has
recovered from her bad - waters much
improved in strength, and, although
one cannot expect to get into asso-
fether of the Normans - the attacks
are not longer intermitent - much less
severe - so that I have much hope for the
best. We are very glad to hear that
you & Mr. Gray are enjoying yourselves
so much at Crawford & hope that
you will soon be with us again -
in full health & vigorous for your winter
campaign - I have not been working

up four or five cords of brick-bats
into a respectable for British &
hardy ferns - I expect it - full of
my rockery consists of an arch about
6 ft high - through the crown of
which water is caused to trickle
affording a fine surface habitation for
Azorella - Dicksonia - Lom.

This arch is overshadowed by a Platya
the first plant placed within was
your a Dendroderm - so that I am
not likely to forget my U. Amer. friends
when you see Mackay - tell him that
I shall feel much obliged by any
fern he may have to give, as I think
I can now accommodate 2 or 300 species
If he happens to have plenty of Tri-
horneros - I would much like a bit
or two - Prof. Mr. Gray however -
delighted I am with the correspond-

of Burhan. I have read a large
portion of it & have been exceedingly
well with the supplemental writer &
the numerous details respecting
most of which I have been more or less
concerned from my youth up. Now that
I have the means - I hope to have more
of my old friend before I receive a re-

Please remember me kindly to Mr. Burhan
say that I hope to have the pleasure of
seeing him when next he visits Andra.

His family send their kind regards
to the Mrs. Gray & yourself & Willie -
one - love

Yours affec. friend

N. D. Ward

Post Office.

At the 1st
Post Office
in Boston, Mass.

Received to-day

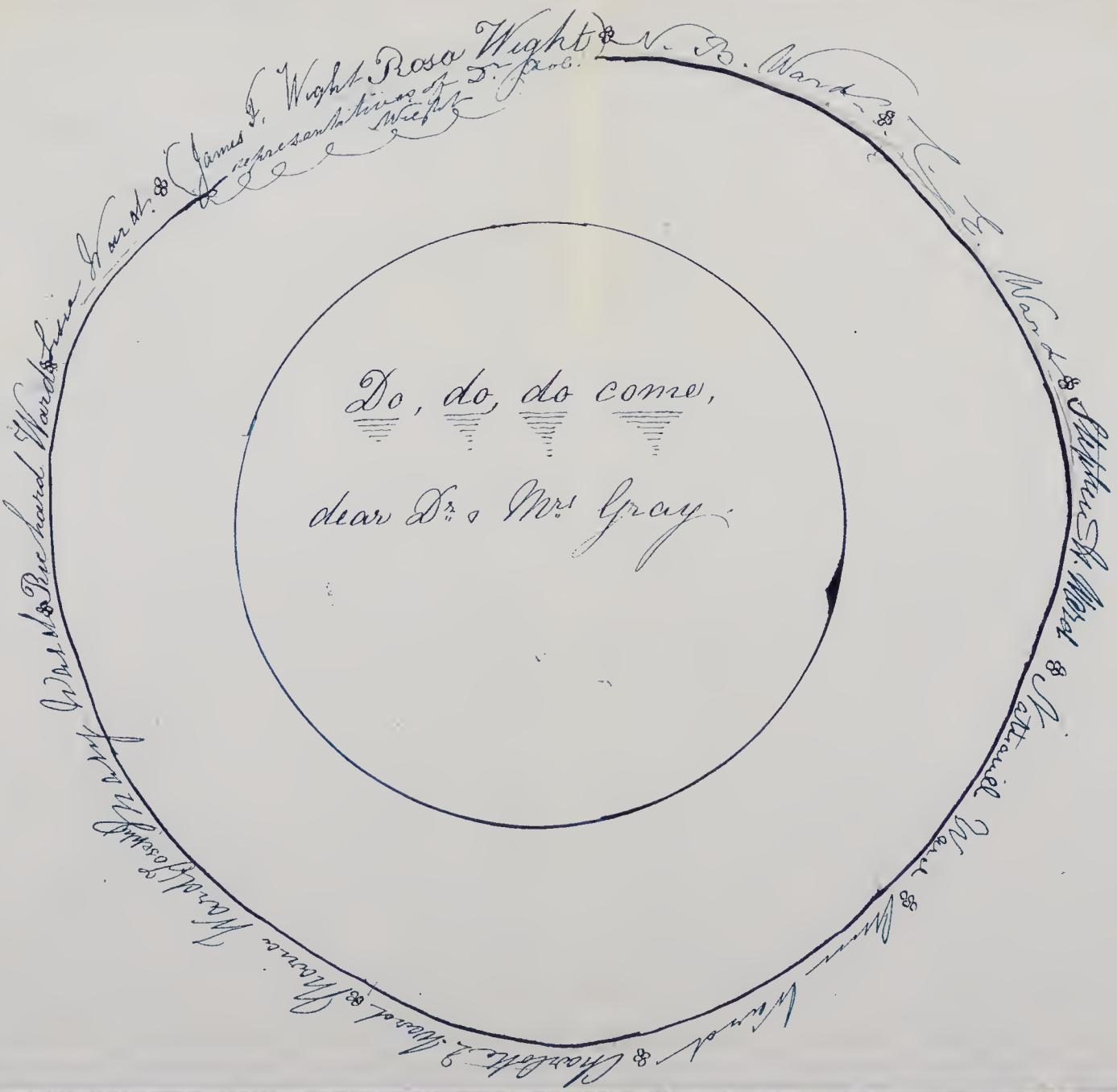
S. Q.

My dear Gray -

Clapham Park
21 Dec: 1861

D. A. Gray

I was delighted to see
your hand-writing again & at the
same time I was disappointed in not having
the pleasure of calling you in
a visit from you but it will be
perhaps - to carry out your present
plan, as it will give both of myself
& Mr. Gray less trouble. - We shall hope
however to see you on Christmas Day. You
must not think of returning after the race
Event. You will find the railroad
from New-York convenient - taking
care to go no further than New-Haven
where you will find a Cab. With the
united best wishes of my wife & sons
to Mrs. Gray & yourself. Believe me
ever, this affect. N. B. Ward



will be enabled to return to Clapham next week. He much regretted not having seen you & Mr. Gray before your departure.

My daughters unite sincere & kindest regards to Mr. G. & yourself wishing you a pleasant voyage and happy meeting with all your friends in your native Land.

Believe me ever

Yours affectionately

N. B. Ward

My dear Gray Apothecaries Hall
13 Aug 1857.

Here I am - spending my 60th Birth-day in a manner most unaccustomed to my feelings - away from all I hold dear & surrounded by persons who are wishing me at Bath. Their wishes however - are reciprocated.

Send you a day or two ago - the plants which Mr. Holland collected for me on Darling Downs about 70 miles from Pineton - Do you think it worth your while to examine & report upon any of them - it would give me the greatest pleasure. And if you (if you find any) give her the credit of

She is well deserving / & so indeed is her husband who paid out my first experimental fares to New Holland at my honour that may be conferred upon him. My friend Dr. Moger is just

arrived from Port Natal bringing with him two cases of living plants which are now at Olaham. Amongst them is *Glauca superba* in fine order & several new interesting & as I imagine some new things. — D.S. has made many interesting collections of Algae for Gray. This has been at home with him a number of P.A. Johns which I am to have. D.S. has been for some years in S. Africa & will I believe return there in a very few months. He is a highly intelligent man tolerably versed in Botany & Nat. History & if you are in want of any information upon such points from Africa he would be most happy to render you any assistance. — He tells me that there is a large tree fern growing along Port Natal & that its habitat is very singular — always growing in deep hollows — or other holes — in the ground of the depth of from 20 to 25 feet — the crown of the plant rising 10 or more feet above the level of the earth.

D.S. is one of the few who escaped with their lives from the last ill-fated Niger expedition when Dr. Vogel & many others perished — I can recollect D.S. & Dr. M. William brought the steamer back to the coast — the one working the Engine & the other steering. — D.S. attributed his immunity from fever to his mode of living — As soon as he arrived in the malarious atmosphere he took 15 or 20 grains of Quinine daily as a preventive & lived upon boiled pale ale — good meat & preserved game — no bad fare. — I have ^{as} yet heard nothing of my letter to the Times & know not whether it will be inserted — but I am now most busy in preparing a new edition for little work & shall be much indebted to you for any suggestions you may be inclined to give me about it. I mean to give one or two illustrations — and devote a chapter to the mishandling of plants in dried cases.

You will be happy to hear that Mrs. Ward is improving — I hope she

BOTANY.

EXAMINATION PAPER, AUGUST 13, 1851.

Hours—from 10 A.M., till 6 P.M.

1. Translate the following passage from the "Philosophia Botanica"—and bear in mind the principle therein conveyed in the answers to the succeeding questions.

"Pulchritudo artis brevitatem exposcit; nam quo simplicius, eo ctiam et melius, et stultum est facere per plura, quod fieri potest per pauciora: Natura ctiam ipsa compendiosissima est in omni suâ actione."

2. Give an account of the various opinions respecting the fertilization of the ovule.

3. Describe and give examples of the different positions of the ovule in the ovary.

4. State the different methods of germination observable in the embryos of monocotyledenous and dicotyledenous plants.

5. Show the analogy which exists between the stamen of phanerogamous plants, and the sporophyll in Cryptogamia.

6. State the mode of reproduction in Rhizocarpeæ.

7. Give examples of the different kinds of placentation; and state the various theories of Schleiden and others upon this subject.

8. Describe and give examples of the various kinds of receptacle.

9. Describe the various ways in which the fundamental structure of a flower may be disguised.

10. Illustrate the fact—that the lower we descend in the scale of organization the more independence does the individual cell possess, and the greater number of functions does it exercise.

11. Define the following terms—*Spora*, *Sporangium*, *Sporocarpium*.

12. Describe the *albumen*, and the substances or parts of plants which have been confounded with it by various botanists.

13. Define and give examples of *apocarpous*, *syncarpous*, and *aggregate* fruits.

14. Describe the changes which take place in the ovary, during the maturation of the seed, in the following—*Artocarpus*, *Ficus*, *Bromelia*, *Magnolia*, *Ranunculus*, and *Pinus*.

15. Give the characters which distinguish—

Anonaceæ	from	Magnoliaceæ
Santalaceæ	"	Loranthaceæ
Leguminosæ	"	Rosaceæ
Scrophulariacæ	"	Solanaceæ
Menispermaceæ	"	Berberidaceæ
Orobanchaceæ	"	Bignoniacæ
Bignoniacæ	"	Scrophulariacæ

D. A. Gray

16. The plants numbered 1 to 5 are different species of one genus. Give, in Latin, a character of the genus, and of each species.

Nicotiana *paniculata*
— *Tabacum*
— *rustica*
— *plumbaginosa*

N. B. WARD.

on these voyages of discov. has had the longest
land journey of any of the explorers - having been
upwards of 30 days upon one occasion for the
first 50 of which he neither took off his clothes
nor washed his face - He might have justly
have exclaimed with Linnaeus - "Had by Bellissime
affiancette." - Ann begs me to thank M^r Gay
for her kind letter - which she will soon
respond to. The S. Pat. walks on much after
its old sleepy manner - The Microscope is
daily increasing in strength and the truth
of the Linnaean idea - Minimis in partibus
cabitudo minus idoneitatem begins to be duly
appreciated. I have come to live with me for
day one of our best microsc. - who has paid
great attention to the structure of tumours affect.
the animal frame - and this marvellous how
much light has been thrown upon the nature of
these tumours by the microscope and the spirit
and this instrument has rendered to the prac-
tical surgeon - but it is the same throughout the
whole domain of nature - normal & abnormal.

I must now conclude - wishing that I could
be with you & M^r Gay - At the Gates of Niagara
or any where else - with the love & regards -
to the both kind regards to those friends whom
we have the pleasure of knowing. Believe me
Ever yours affec. N. D. Ward

My dear Gay

Claflin. Rive
1. April. 1852.

I drift along on this to have a short history
of the receipt of your friend letter - but the fact
is that I have been my parole for more than
two months with chronic Catarrhitis (the result
of continued exposure to our barefeet & sideways)
which has indisposed me for any exertion. My
eldest son too has been very ill with pneumonia
but thank God - we are now both recovering
and fully disposed to enjoy with grateful hearts
the blessing of returning spring. About three
weeks since I went with Stephen to Hastings,
and by getting into the sheltered paths of the
cottage - derived no small benefit both bodily
and mental from the contemplation of Nature - one
of her greatest places - The Alex. cupboard
was in full flower & of gigantic size here. Then
the height often or twelve feet - the ground
 carpetted by delicate Primroses - Anemones &
Dianthus - and the Chrysanthemum &
humble Adonis fully unrolled - to say nothing of
a countless host of lovely mosses & other cottage
mo plants. - I have just been laying out £30

in making some extensive alterations in my garden-ground, for the sake of providing suitable habitats for ferns & for American plants. There is a place (as it is a little one²) for sphagnum-covered with mountain "fells" which latter were well planted with a few species varieties of Ericaceæ, chiefly natives of N. America. I can accommodate at least 500 species, and can give them every possible advantage of sun & water to suit their respective wants.

I need not say how pleased I should be to receive some of your smaller wood & other plants. Anything that grows near you would be most adaptable, not only for their own sake, but for the sake of those dear friends who I hope to see again will make it more before the favor as with another visit. I have not yet thanked you for the *App. marginata* & *acutifolia* - both of which I have a couple of bush from Mr. Smith and need little more.

Do you ever get the ripe seeds of *Nelumbium luteum*? I think I could grow that & other species - as I can give my depth greater from one inch to three feet. I have already Myrica Gale - *Glycyrrhiza splend.* - *Epimedium* (in my bags) and I think I could manage *Sanicula* & some others of I had them.

Both Mr. & Mrs. Lyon will be very glad to hear that Mr. Ward has been very comfortable during the last two months having been almost entirely free from neuralgia or other disagreeable symptoms. Indeed it were possible for us to pay him a visit - as I imagine such a trip would be of most beneficial benefit to us - but this is unfortunately a thing which he will not be allowed to do. I hope that you all in America are as pleased as I am with the *Neris* B. & S. as I am. Harvey had sent me a copy and meathus of his figures would quite content me to visit your coast for their sake. Harvey writes me word that he has an herbarium for Dickinsonia where it is growing in great profusion. I must say I have not seen this tree in America. I am about fitting up a small case for Capt. M. Cliftord - Comdg. of the Latitude one of the ships about to proceed to the N. Pole in search of Franklin. He means to enclose a tiny rose which I hope will be the first that ever flowered in the Arctic regions. Capt. M. C. is an enthusiastic young man - but not very sanguine in his expectations of meeting with Sir John or his party. He barely thinks it possible they may meet with some of the remains of the party. Every thing which I have & accumulated experience can suggest for the betterance of the objects they have in view, will be adopted & so have I turned to solve the great question. My friend has been twice

ff somewhat interesting additions to my collections from my friend Christy - who has been for the last two or three months in Norway. He enclosed me in a letter spec of the beautiful Cistus kleinii mentioned. One of the Woodhous wrote me that he was surrounded by most lovely vegetation & owned land not above ¹/₂ acre of Primulas from Siberia. You would I am sure be delighted to see what I have already got together - about 120 species & varieties of hardy Ericaceae - including eight of Dr. Hooker's Rhodod. which is very eminently more ^{are} showy than a species he is quite hardy - as he allowed them to be in rows - parallel with rows of the common kinds & he tells me that the latter suffered more from the frost than the Sikkim ones.

I have just made a fine collection of living *Maddia* from from one of our County women, a Miss Gibbs of Colchester Foster. Miss Gibbs went to India with her Sister & Mr. Swift - who has just died on her return to Southampton - Harvey - Foster & his wife - Dr. Johnson & Miss Weston are just off to Switzerland & it is just possible that I may go to Chamounix along with Collier. My wife and daughters send their love to Mr. Gray & with my best regards. Welcome ever yours affec't N. D. Ward

My dear Gray

Apothecaries
Hall 11 Aug 1852.

Here I am engaged just now in my annual examination for the Botanical prizes - I have enclosed you one of the papers. - I ought however first to have thanked you for your valuable work. I know not how to thank you - or to make you a return for your continued acts of kindness - but must console myself with the idea that it is mine blessed to give thanks receive. I am happy to tell you that my dear wife has suffered much less for the last six months from her paroxysm than usual, and I do hope that it may leave her altogether. The rest of the family are all quite well. You will be pleased to hear that Stephen has recently been elected one of the Court of Examiners to the Apoth. Corp. for the granting of Diplomas - This is a most enviable position for a young man -

as it places him at once in the highest ranks of the profession - as the examining officers of our worshipful Corp are compelled the most stringent way the students have to undergo. This - in fact - will understand & know Edged - that all the great improvement in the curriculum of the med. student originated here -

I am now busy with the second edition of my book, which is in the press. If I had the pen of a ready writer, I could make it most interesting, as the subject matter is second to none. I have however done my best - and I am vain enough to think that you will consider it an improvement on the last. Please send Mr. & Mrs. Gray a copy as soon as this is out. One of the illustrations will I am sure please you - I made it in a cigar box. Some years ago I bought a lot of books at a sale - on the sake of one of them I wanted. I did not look at some of the others for a considerate time - when on opening one of them - a list of the plants of one part of Germany by Schleier

was struck by the vignette in the title page - representing our Saviour discoursing to his disciples on the most & of course the lilies of the field occupying a prominent position. My friend Coker has introduced my suggestion - the date - which I think adds much to the beauty of the picture.

I believe I mentioned before in my last the alteration I had made in a garden. The miniature lake is a source of great pleasure to us all - as independently of the attraction of the water lilies and other aquatics - we are never wearied in watching the habits and flight of the gambols of the water insects. The dragon at the bottom hunting after its prey. The water bugs - swimming along the surface of the water - hardly causing any more disturbance than if they were on flat leaf - & the dragonflies - spotting the boys on a half holiday - while over land or on - The Libellula grandis flies to and fro like the蜻蜓 of the waters. I am in daily expectation

copy of the 2^d edition of my little work which
contains enough to shew you will consider
an improvement on the first. You will not
now have to send to Ireland for the Dickens
es, as Mr. W. A. tells me it has been found
in N. Alabama. You will greatly oblige me
by criticising my book most freely as I
should like to correct my errors - should it
charge to reach a third edition. You
will may create a independ. of those which
I have corrected - as the work was unfor-
tunately printed during my absence or the
coster. The heading of the first chapter
and also was taken from a old book
by Schiller with the intit. of the two
dates by E. W. C. - - - - -

Thomas Cee

We shall be wishing for you & Mr. Grafton
tomorrow. Wright's children as usual are with
us - and a daughter by friend Mallard &
two of my nieces are come in a day or two.
Mr. Ward I am most happy to say is much
better and thanks God - able to enjoy
with the young ones the festivities of the
season. Freed not day that we shall not
forget our friends on the other side of the water
through the winter as I have for many many
returning seasons of health & happiness to you &
your wife. Believe me ever yours a. C. Cee

My dear Gray 16 Dec. 1852.

Since I last wrote you - I have
been illustrating the truth of a noted axiom
that no evil can happen to us in this world
without some compensating good. - The aposto-
lic truth which has kept the source of
much pain & trouble to me for several months -
namely at the same time the cause of my enjoy-
ment of the three most delightful holidays
which follow it - I should not have had
to have undertaken the last of these excursions
the most pleasant and profitable of all - over
to the Rhine - Switzerland - Milan and Venice.
During my sojourn in Switzerland the weather
was most propitious, and I shall never
forget the first good view I had of the snow-
clad mountains in an early morning ride
from Coire to Chiavenna over the ^{5. am} Splugen
pass. - From first starting all was in
mist - usually the last rays of the sun
lighted up the far distant snow clad peaks
in the west - rendering one of a story in an
ancient history of the inhabitants of a certain
country who had determined to elect for their
ruler him amongst the candidates who first
held the rays off the rising sun - And last
the one turned toward the east - the wire one

directed his attention to the west - and
behold - as I said - the last rays in the
west - I need not dilate upon
the beauties of this scene - as you & Mr. Gray
had far more congenial opportunities of
enjoying them than I had - One thing
however struck me forcibly viz - the excep-
tive development of plants with the inci-
pient slight as I journeyed southward - Thus
the Oleander - a bush of 3 ft. high at
Dorset - in the garden of Mr. American
Convent at Venice becomes a tree 16 or 18
ft. high - loaded with thousands of flowers
and in the garden of Mrs. Madeline - at the
base of the Salco mount at Geneva - I saw
a single pumpkin plant - bearing 14 fruit
each weighing 100 pounds. Another point
which struck me most was the effect
of light upon the mind, as shown most
etc. in the difference which exists
between the dark Catholic Protestant
Customs of Switzerland - In Venice - the
canalles reflect contrast more
between the Capitalist Benedictine Monks
and those belonging to the Armenian
Convent - the former sunk in the deepest
night - & aware - the latter constantly
engaged with their painting prep in the

development of useful knowledge - None
but those who have intellectual culture
are now here to be found - Another subject
and one well worth the attention of a painter
like Locardi - would be the idle and the
industrious population of various countries
indeed. of any religious differences - this is
exhibited in a very striking way at Venice
in the early morning - Drift-ice girls who
supply Venice with water - and the busy drif-
fle-hands who the whole sprawling
about at the doors of the Churches & public
buildings - come up for the early pittance
they obtain by乞 - I did not obtain
the plants of Mr. Conard till for fear of
upsetting some Safepages - I was to be for my
Garden - I was willing to afford that
various plants to grow with no cost
well as on their breeding also - I have by
the by to thank you for your kind people
sending me some fine N. Am. plants, which
I shall take every possible care of for the sake
of the donor - I have moreover to express
my obligations to you for the second part
of the series of Dr. Bartholomew's which I
have written a letter of thanks - and to whom
I shall send a few plants under cover to
you from Wm. & Pattnam - and I have a

inexhaustible variety & beauty of
Botanical news. I have not much to say
We shall have a change with the Socy. & I
in the retirement of Brown as Pres. & the
election of our friend Thos. Buse, who will
hope to give a little of his vigor into
our proceedings. Taylor is as you have
seen how he came & some time I am
informed resign. He is not yet settled who
is to be the new Secretary. Harvey talks
(as I hear from W. Ward) of visiting London
but nothing is yet fixed. At present
the faculty appoint a Curator to the Field
Herbarium, who will prob. give lectures,
as it is at least intended to give the student
at the University the opp. of becoming
acquainted with the natural history & all
reformation which will contribute to the
advantage of all concerned. I have respect
to home news. I am most happy to say that
Mr Ward is much better from his principal
attack than usual and that all the rest
of his family are in the enjoyment of good
health. My son Nott. the surgeon has been
called into see the Chancellor of the Exchequer
We all write in kind regards besting his
to Mr. Gray himself & I shall see you
Yours affec. friend N. D. Ward

My dear Gray Asylum Rue
11. Mar: 1853.

I think that my last letter
to you was written after my severe
attack of Pneumonia - from which
I thank God I have now quite recovered
but am left alone at present &
shall be during the continuance of
the winter weather. You however, is
affording me much amusement, as it
gives me time to look over, enjoy
and arrange my collection of Plants -
a large & which comes up to size
but is attended with some pleasure of
reminiscence of kind friends - out of
the U. States for which man - used to
take off his dress. I have just now
dispatched a packet of plants for Dr.

Sarcole under cover to you - I have not been able to find him any novelties in his *g.v.* genus - Carep. as I some years ago - gave them all (as in duty bound) to Dr. Hooker. I have however sent him many new which I hope will prove acceptable together with a copy of the new ed. of my little book - with which I hope you will be pleased, as I think it is an improvement on the first.

On my return I have 'Considerations' and - I stole from the Flora Kubria of Schottler, but got Mr. Cooke to add the Dates - My motto is a description of the climate of Paradise by Guersens Polifarius of Lava I think a writer who flourished about a century & a half ago - Now, I trouble you to forward when you have opportunity the copies to Prof. Bailey N.Y. and to W. S. Sullivan Asst. Columbus - Ohio whom I am indebted (through you) for some of the first species in a herbarium & he is not making too many species.

I have sent you a couple of extra copies to give to my dear friend Carep. & to send you mine when I refine them. My garden & lakes are beginning to get full (indeed) to the botanist - Thanks to you and to other friends - My friend Clark was in Norway last year - and brought me many interesting plants from there in addition to those among them - the Cumb. moorland - Carenallan the Wooding - &c. and a great number of dried sp. from the Dovedale.

I have been propagating a portion of my herbarium. i.e. fitting effects of different alpine plants arranged acc. to their elevation - Comm. with the level of the plains & ascending to that ^{above the firs} above the firs up to the snow line, as by the red rock.

Others which are non-habitable figs. I can't think this sufficient - but I have been lately studying Kubitz, and learning to appreciate the value of those physical differences, which are indefinitely reflected upon vegetation. At all events - I hope if I can get you made up to relax in their pursuit of the various cell floristics of this world & join in the contemplation of Nature in her own

Miss Gibbs of Boston. Shouldn't happen
to know her, tell her how much she has
contributed to my happiness - I have neither
a copy of your book - through her friend Mr.
Goddard. I. Hodder has just told me that
Stanley has made up his mind to go to
Switzerland & apologize for the authorship. How
I should like to accompany him - Mr.
Ward continues to improve & I hope
will be enabled to have a run in the
Country in about a month or two. I think
we shall pay a visit to one of our favorite
old haunts & travel amongst Oakes
firca - Ophrys muscifera &c. There is one
wood at Cobham which cont. in and on
the borders 16 species of Orchids - My
daughter are all well as are my Sons
All write in kindest regards to yourself
and Mr. Gray - hoping that you will
soon pay us another visit -

Ever your affectionate friend
N. B. Ward.

My dear Gray

Cape Ann June
20 Mar. 1853

I cannot tell you how delighted
I was at the receipt of your last letter, containing
the expensive T. Petersen. It arrived, too,
on a red letter day - i.e. the birth day of
my daughter Maria - the 15. inst. - and of
course, I have given her a portion of the
specimen... You will not receive by this
letter so soon as you expected - as the packet
was only sent to the post office a few days back.
The delay arose in consequence of the time
occupied in making up the packet for
D. Larborek. I hope not like Hodder -
a great store of duplicates, and it therefore
takes up some time in selecting individual species.
I trust however that D. L. will be pleased
as I have amongst other things sent him
nearly 1/3 from B. Alex. I have to thank
you much for the O. Lindström Mistletoe - the
first part of which I rec'd. last year &
for which I ought long ago this to have
thanked you. I had done so in imagination

When you have time often write & oblige me
greatly by giving me an idea of the
relation of the highest points of your
mountains, so far as they resemble
or differ from that of the Alps, and

Pretness - It is a subject to me just
now of great interest - as much as I
with the demonstration that Society can
abstain (in the mean degree) to render
the ascent of Mount Blane & other high
mountains - Wish it were in my power
to accept Mr. Gray's kind invitation to run
over & pay you a visit as I think I am
still disappointed with your plants to render
(in a botanical point of view) such a visit
highly pleasurable. The visit this of the
delight I should have in your beautiful
country with such companions as Mr. Gray
& yourself - but I fear it cannot be -

What think you of *Ullandia* agreed to
being imported into this country for the pur-
pose of trifling *Boletus* & *pileopsis*? A friend
of mine has just rec'd. a cable agent for
that purpose & he brought the plants this m-
to know what kind of stuff it was -
Send me a spec. to know whether I am

correct in so naming it. The cloud cases
are progressing - or going ahead in a way
which would be most gratifying to me if
I spare a little more time & care - The
poor sick Ladies here is a bust to give
fifty cases to a bazaar fair for one of the
Societies - and has called upon me to assist
her in her charitable views - which I am
most willing to do as far as lies in my
power - It will load *Beams* would
hardly suffice for the present demand.

Sir W. H. writes me that he is over-
whelmed with applications - I have now
the double white primrose - the *P. marginata*
& *Selction* in pale flower & this in three other
alpine species coming on. Some of these rare
from brought from Norway last year. *Cistus*
montana - *Woodia* *lockwoodii* same as yours.
W. hyperborea - *Cistus* *flaccida* over
the others - Coming up most beautifully & the
Dicksomia arctica in the flower has real
upright knobs - which have grown about
1/2 foot in a week - I have for a number
of the *Madiera* ferns - good most beautifully
brought me by one of your neighbours - a

been to render it a profitable under-
taking, as they have already expended
the Capital sum Subscr. £500,000. & have
borrowed half as much more. A very
old friend & mine - a Lady of the Moravian
persuasion is about to visit America
on business and I believe with the
church to which she belongs - She is a
very estimable person - but I almost tho-
ught her too old - being near 70 - for such an expedition.
Should she visit Boston I shall take the
liberty of introducing her to your kind no-
tice.

I have not much news for you
- I have not been able to attend a single
scientific meeting the whole winter -

I am most thankful to say - that as the
rest of my family are quite well. Stephen
is about to re-locate into the city -

All unite in kindest regards and best
wishes to yourself and Dr. Gray and

Kindest regards to her

My dear Mr. Gray
Yours most sincerely
N. B. Ward

My dear Mr. Gray in Clapton Pine
2 May 1853.

A short time I have a
general cleaning out of my writing desk
and you may imagine my consternation
when I found the accompanying letter
from Ann, which was to have been
forwarded with a copy to Dr. Gray, and
which I imagined had been enclosed.

The fault - somehow or other rests
most certainly with me and I hope to
have you forgive me. Ann is at
present staying with her young friend
in New Haven, her son is about
to be married. Mr. Ward has upon the
whole suffered less this winter from
several fits than usual and has most
happily enjoyed in these the beauties
of this heavenly season. - I have much

seen the country in more lonely glances than
at present. My appreciation of its
beauties is now doubtless enhanced by my long
inhabitation at home: but there is - I believe
scarcely a portion of the temperate part
of the earth where there is such variety
of plant & form in the vegetation as in
my immediate neighbourhood - the pleasure
ground of our Merchant Princes being
decorated with floral beauties from all
parts of the world. - Our common too
are now in all their glory with the famous
Hawes arrived in London I believe

to day to make preparation for his
approaching expedition. Were I a single
man - how gladly would I have accompanied
him. Dr. Gray will be pleased to hear,
(although I believe he is not personally
acquainted with him,) that the indefa-
table Indian Botanist D. Night has
just arrived with his wife & ch. in

good health - Although he has been
waking a little life at Botany Bay
several hours may be said to be only com-
mencing, as he has to arrange and determine
all his extensive collections - some boxes
of which are following him on ship board.
He tells me that he estimates his number
of species at somewhere about 6000 -

Dr. Gray's name will of course be included
amongst those who will have a seat
here - I am about to erect - or rather
to construct a habitat for moisture
loving ferns - such as Dicksonias &
Selaginella and I wish I could now
trust of them to be able to supply them
with the latter. I have a number
of most interesting forms now thriving with
me and not afraid of losing a single plant
which I collected last year in Switzerland.

I am told that the Crystal Palace will
soon be opened in the next year. They
much fear that there is too much indifference
of art & science and consequently too little

in very good spirits but I fear he has cast
out the much work for himself in preparing
sets of Alcs for subscribers. - No no John
displayed 50 specimens of each species & he wrote
me that his luggage weighed 100 cwt - so now have
to be carried across the desert on the backs of
ten camels. - When I reached home I found
my garden fern house a perfect wilderness yet
beautiful exceedingly with the fine flowers of
Aspleniums - *Ditricha leucana*, numerous Equisetums
etc. etc. The ferns tho' were looking most
handsome. - By the bye I hope you have
not forgotten my promise of sending me
another batch of the natives of your woods.
Have a new house in there - where I think
you will be quite at home. - I am very
happy to tell you that Mrs Ward is better
that all the rest of the family are in
special health. - Charles & Maria have
returned full of the wonders they have seen
in Ireland & have obtained moreover a -
little insight ^{with} and great love for - the maine
population of our island. - We are unlike
in kind & regards best wishes to Mr. & Mrs. G.
of yourself & believe me ever

Yours affec. Friend
N. D. Ward

My dear Gray

Captain ²
27 Augt 1853.

I have just returned from a
very pleasant visit to Ireland - Plymouth
& Jersey in company with Charles & Maria
We paid a visit of a fortnight to our
friend Harvey, and enjoyed much his
society and the wonders of the Dublin
Exhibition, which although much smaller
than ours of Hyde Park yet contains many
very many objects of great interest - prima
with reference to illustrations of the past
to present condition of Ireland, with bright
glimpses into its future prospects. Having
some days ago - got over 500 miles of our
ground with Harvey - I was in some measure
enabled to appreciate the changes which
have taken place since then and it was
matter of great gratification to me to see
the improved temporal condition of the country.
Local causes are now contriving to effect a
change for the better - the conversions from
Roman Catholicism - the sale of few numbered
estates - the facilities of access to all parts of
Ireland & so on - the exhibition which has
called forth the dormant energies of the Irish

the diminished population he - I don't think that Ireland can now retrograde - We visited the Giants Causeway and the lakes of Killarney where I revelled amidst Dicksons & H. Ward's Illustrations - In the demesne I traversed the rocks & stones & trunks of the trees & coated with the fairies - which must have been growing there for ages. Such a wild & beautiful & mysterious is now left, be not with any other, justifying the epithet of the good janitor of the Abbey - That any man might make a Necessity, but God only can make a Miracle. Were you to see this little paradise - Dear it would put you out of conceit with your fern case - as here every stone & tree is coated with Algaes & lichen. We wound up our journey by a week's stay at Plymouth & a month's at Jersey where we enjoyed a week which a left before I recd your kind note at Dublin & the 1st of Jan went to friend Night where answer was made. Now for D. A. Gray, I am delighted with your extract from his letter, and will be more than glad to meet his wishes to the utmost extent in my power and I believe can meet them to the extent wished for inasmuch as the unsold copies of my James are all my own & you know a man may do what he

likes with his own. So as soon as I get home my spare copies which should be very soon now be shall have a complete set of the James & with them hopes & wishes that they may prove a useful addition to his library. In regard to the quod pro quo I leave that to his own discretion more & mentioning that I am also fortunate as to possession of his works except the one you gave me the 1st Decade of the Chorus. In writing you may mention, that were I properly settled down & fell quiet at home I should have written to him myself in reply to your extract but the fact is I am still like a fish out of water, have not yet got accustomed to my new chair & table & cannot reconcile myself to a greater a moral & physical than I find quite unavoidable. So much for D. W. You must of course obtain a set of his Illustrations when he conveys their distribution which can only be for a considerable time as the agent of various in England. And now my dear friend say every thing that is kind & grateful to Mr. Gray & her most friendly invitation to my daughter which I regret (as do they) that circumstances prevent allowing to avail ourselves of at present - She has been from time to time here but I believe she will be here in the last part. Lucy left us on the 1st

My dear Gray

Halfbridge, Chester
24. Sept. 1863

I have just heard from Ann
of your arrival with the Lady & from
expected departure on Saturday next to
Boston. I must stop in this neighbor-
hood for three or four days longer to be
present at the expected marriage of
a friend of mine, but I should then
be obliged to leave England in Oct. I
would much prefer you at Liverpool on time
so that you can appoint as I
should be much obliged for you to depart
without my seeing you. If however
you are engaged for some time ~~on~~
departure of ~~on~~ I shall then
have the pleasure of seeing you at Gap-
han as I shall be at home - D.C.
on Saturday even^g. Pray give me a

have adopted the

The Rev. N. German
The Grammar School -
Manchester

where I shall be from Wednesday back
to Friday morn.

Yours very truly
N. B. Ward

and Gray is progressing with his travels
and are now ready for the party to
visit his collection. I intend (D.V. to)
celebrate David's birthday by collecting together
a few of his friends & visitors - in
Hobart - Thomas - Parker - Van Nostrand - Wallach
and others - Would you care to join us.

Ma has written to Mr. Gray & has told
her all the family news. I regret to
say that I cannot give a good acc't
of Dr. Ward - She has been suffering
greatly from debility & was irritated
produced from want of sleep. I hope
however to be able in my next to give
you a better account as she has had
some sound sleep last night - almost
for the first time for this fortnight.
All the rest of the family & all
write in kind regards & best wishes
to you & Mr. Gray. I believe -

Ever Yours affect.
N. B. Ward

My dear Gray Chapman Line
26. Jan 1854
Your long expected cargo
arrived at the London Docks eighteen
days ago - but did not reach me until
last Friday owing to its having been
placed in the bottom of the hold - so
with an increase of quantity of oil - the
which took a long while to be discharged
by lighter loads of water. - Thanks
however to the excellent way in which
they were packed - very few of the plants
sustained any injury. I cannot tell you
how very highly obliged I am to you for
them. I shall have you now always before
me, although I did not notice their
presence to keep you & Mr. Gray in
speculative remembrance. - Had you
as often before left me there for
some time - what a grand addition you have
made to my collection - such as it was
previously. I am greatly pleased with the
circle of the Cacti - they are the
curiosities of this or the other - the two
mudas were particularly

On board of course heard of Slaves
Guinea in Duggan Bay. I told them we
considered there were only five or six
species of *reticula*. Also I know the de-
cency of his new species is something
remarkable. They appear to have avoided
Slavery for all his previous disappointments.
He will of course find *Thureia speciosa*
on the shores of New Holland and I dont
intend to be surprised to find another more.
A new species of *Clematrena* (the Natal Gun)
would be very acceptable. From what Gray
says of Dagon it appears that in North Africa
the influence of civilization on the shores there
are immense tracts inland with a worthless
poor soil - poor with an equally poor &
incapacitious flora, so that after the whole
the natives plant *Acacia* clones without much
to recruit the absence of *Washingtonia* Palms
Send the more esp. as mosquito hatched
so that go hand with together. Our
friend seems to have suffered much from
the bites of these venomous insects - as he
says in his last that his forehead is like
a pond of *Acacia* seed in full fruit.
He is enjoying his ship all grace
College at Reading but I think he has

Made a mistake in going so far out by
reach of all the Botany Societies & the
large collections of plants a study of which
must be necessary for the elaboration of
his own extensive Catalogue. When I last
saw Mr. W. she told me that his plants were
in good preservation but I hope to tell
you more about them shortly & I expect to
be able to pass him a trial for a few days
very soon. - Stephen is about to lecture
at the Royal Institution on the closed cases
in this Lecture his endeavour will be great
directed to the fatiguing application of the
principle to animals and man. Before
at the same time point out the absurdity of
Sir Joseph Banks's plan of placing the case
now of the Crystal Palace with his precious
plants as nothing can be more certain
than the destruction of the plants - it is not
surprised by the warm moist atmosphere
essential to their existence & if they
have this - then the works shall and the
visitors must suffer - What Sir J. would
do - would be to give living specimens of
nature in various regions - in closed cases!!!
This might easily be effected would be very
important. Dr. W. Godwin is now very well advanced

My dear Gray.

in Clapham Dec 20. Dec. 1852

I need not say how delighted I was at your tidings from after so long a silence. Your much welcome letter arrived yesterday morning with an affectionate letter from me at Utica as at this festive season, next to the enjoyment of the society of one's own family, the most pleasure is that of corresponding with one's distant friends, amongst whom none are more dearly recollects than yourself and Mr. Gray. I trust we may yet spend another Christmas together. Thank you much for your expected box of ferns. ^{of} I can not imagine how greatly your last contribution added to the beauty & interest of my banks, beautifying as they did - with the numerous species varieties of *Utricularia* the whole forming a picture - which was beautiful exceeding. I have written to Mrs. Doubtless to inform her of your contribution to her Society, and will take care that she has a complete set of all you send. This is me - whom it is a privilege to receive in any way I shall not readily forget her kind attention to me and mine during my stay in Dublin. I am very glad to hear that your Disclosures are succeeded so well. I have dedicated one of the cases in my garden to you which is full of American productions - and another to France in which I have committed to the key-keeper the natural conditions existing at Hillhouse with respect to a moist of light - heat & & in which the water is continually trickling down the rock through a perforated glass percha tube. In this the *Utricularia* & *Utricularia* are in abundance. The case is of tolerable dimensions about 6 feet square & already forms one of the most attractive features of the place. I am quite certain that the time will come when no garden will be considered complete without one or more closed cases - not to supersede the ordinary modes of cultivation but in addition to them, as there are numbers of plants which absolutely stand in need of them. I think I mentioned in yesterdays letter to Mr. Gray that he had introduced by means of the cases - the *Pinchona* from the Peruvian forests into the pinewoods of Java - a fact of no small worth so valuable a plant.

I am now Master of the Society of Apothecaries and intend to give in our Hall - two microscopic parties - to take place on the first Wedn. in March & the second Wedn. in April. I mention the days to you in case you should have any friend or companion in London at that time, who may be interested in histological science - as I shall use my utmost exertions to make the meetings interesting & removal other obstacles I have in view - it was my intention to arrange the objects exhibited as far as possible, following D'Uchelle's Lectures as the base of my arrangement. We have plenty of room at the Hall so don't be afraid of troubling to me any number of friends you like - Do give him some idea of the extent of microsc. research in the present day - D'Uchelle has just had constructed for the histological room in the College of Surgeons, two Cabinets for a systematic collection of objects - each capable of holding twenty-nine thousand specimens - One of these cabinets is already nearly full. Among other things that D'Uchelle is paying especial attention to is the structure of coal - and he would be particularly obliged to you for some moderate full acknowledgement the receipt of any specimens of American coal you may be able to send - I have just sent to Timbals a few copies of my lectures delivered by me at the Royal Institution in March. I thought you might like to retain for distribution as they contain a comprehension all of the new & new applications - I much thank you for your little memoir - I am sure will afford me as you say a large & much delight & instruction.

I have just rec'd. a letter from Mr. Dodhant - past & still Secy for our gratification William has made a great collection of Alga in W. Australia both at Albany and the Swan river, several new Spec. of which he has sent a full & true acc't to the R. I. Academy, which will be printed in their proceedings. D'Uchelle is now in N. Zealand, where he means to stay most of the winter. From thence he goes back to Melbourne & then to Sydney & N. Zealand to the Lord Howe Islands - San Francisco & home via Panama & N. America. His wife and another daughter are absent, which to me is already fine enough but he seems to enjoy such good health & to take such pleasure in all he does & collects that those cannot say much against it - This address is - care of William Dodhant & Stephen Jr. Melbourne. S. Australia. - I have not rec'd. a letter from Albany for the last 3 or 4 months - But I heard from an other party that he had been giving lectures for Alex. at Melbourne. I need scarcely saying how I assure a portion of his own disinterested love of science - by such worshippers of mankind - Our friend Dr. Thompson returns to India in the course of a month or six weeks. He will doubtless continue his botanical labours -

As I have not enough already to do - I have just been appointed one of the two
Treasurers of the Soc. of Apothecaries - which involves the superintendence
and control of an establishment whose st. of assets of £200000 individuals
and whose business transacts during the present year more than the extent of
£100000 - part of this owing to our (I believe just) but well led mismanag'd
war in the Crimea on board the Prince - there were medicines to the value of £4000.
If you could send us some lead from America - it would be well done. We have orders
in the Hale for 15000 pounds weight - I cannot get anywhere more than 2 or 3000
& yet with all this deficiency there was a letter in the times of to day - stating that
voluntary contributions to the extent of several tons of lead - linen left had been
waiting for above a month in City warehouse - the orders of the Admiralty
for the ships & side cutters. Nothing is as bad & vicious as to be forced
But I must draw to a close. Only wish I could be present at the battles



"Consider the lilies of the field, how they grow."



FISSIDENS BRYOIDES.*

"WHICHEVER way I turned, nothing appeared but danger and difficulty. I saw myself in the midst of a vast wilderness, in the depth of the rainy season, naked and alone; surrounded by savage animals and men still more savage. I was 500 miles from the nearest European settlement. All these circumstances crowded at once upon my recollection, and I confess that my spirits began to fail me. I considered my fate as certain, and that I had no alternative but to lie down and perish. The influence of religion, however, aided and supported me. I reflected that no human prudence or foresight could possibly have averted my present sufferings. I was indeed a stranger in a strange land, yet I was still under the proteeting eye of that Providence who has condescended to call Himself the stranger's friend. At this moment—painful as my reflections were—the extraordinary beauty of a small moss in fructification irresistibly caught my eye. I mention this to show from what trifling circumstances the mind will sometimes derive consolation, for, though the whole plant was no longer than the top of one of my fingers, I could not contemplate the delicate conformation of its roots, leaves, and capsules, without admiration. Can that Being (thought I) who planted, watered, and brought to perfection, a thing which appears of so small importance, look with unconcern upon the situation and sufferings of creatures formed after his own image? Surely not. Reflections like these would not allow me to despair. I started up, and disregarding both hunger and fatigue, travelled forwards, assured that relief was at hand, and I was not disappointed."—*Travels in Africa* by Mungo Park.

* We are indebted to Sir William J. Hooker for identifying the above Moss, as the one referred to by Mungo Park.

Dr. J. Gray
5
JA. Edward Murray
Cambridge, Mass. Boston
Massachusetts. A.D.
1850
JA. Edward Murray
Cambridge, Mass. Boston
Massachusetts. A.D.
1850

you tell me you were about to give. It is not very probable now that I shall
ever be able to leave England for so long a journey. My dear wife has been
suffering much from great pain & exhaustion for the last few months. But thank
God her present symptoms have moderated and I do not despair of her yet
enjoying a tolerable number of years. My daughters are well - thank
God especially my wife wrote to me a little myself in kindred regards & the best
wishes of this happy season to yourself & Dr. Gray & telling me how
much she is to thank Mr. G. for his kind note
which she will answer shortly

N. D. Ward

as there was in all its glory one of my
plants which has hitherto baffled all efforts
to grow it viz the Lycopodium dendroides
a similarized with the Amer. spatterdull
exposed to the blaze of the noon day sun
within the glass shelter was at length
filled with it. There must have been at least
one or two dozen old young fine
and most probably perished owing the want
of a suff. supply of soil & water. How do it
grow with you? Another short excursion
to Knaphill & Watkiss pleased me greatly
At this place are fine gardens of American
plants - growing I imagine in more than
their native luxuriant beauty. I know
whether you saw them when in England
they are just as fine in their way as the
Imperial gardens at Bayswater by Mr. Waters
have however a large lot of trees among
which I nobly list one of the most beautiful

You will be much pleased to hear that
my dear wife is better than she has been
for 2 months - the neuralgic attacks are few
far between & there is a reasonable hope
that she may lose them altogether. The
actions of a wife is a better wish to yourself
than all the wealth one ever affects you.
Yours affec son ever affectionately
John

My dear Gray 11 Clapham Rue
29 April 1853

Right long ere this I have
acknowledged the receipt of your most
welcome care of plants faithfully. A long
expectation induced his or three weeks
ago, but my time had been so completely
filled up by the preparations for my
microscopic lecture that I could
find time for nothing else. Although the
care was so long in reaching me - the two
of the plants had suffered nothing & were
so well packed. The few of the herbarium
had perished. The garden is now quite gay
with the *Saxifraga* ^{with flowers} ~~but~~ last year it
all the ferns are doing well. I think you
must have been present at the parties at
the Hall. nearly 500 persons were present
a large part too at the second, including
almost each man of science in London. If I
microscopist I must send a boat too - with an
unlimited supply of objects - the majority of
which were illustrated by the celebrated Dr. Gray
of the London Museum. Amongst them the
diagrams of Dr. Gray were particularly beautiful
After first party Mr. Peters brought his
wonderful machine for minute writing. The

appabllities of which almost exceed belief.
When I tell you that the words "Matthew
Marshall Esq. Bank of England" may be written
in the hundred & five thousandth part of an inch
without visible loss either in reading - or touch
is the fact - I am not Marshall to
Jackson - the famed miser - who says - they
were all arranged under the head of
vegetable and animal kingdom - recent
opium mine - Kingdom - and anatomical
and pathological series with a great

tables for miscellany - at the day before
my last party - I had the pleasure of presenting
about 200 ladies with a number of young
persons - who were highly gratified by the
intellectual feast I had prepared for them
as I had reduced all the objects of interest
exhibited the preceding day. I had printed
a dozen or more of the first missives
in the monthlys - and - Brown leather
Duchett - Jackson - White leather - & the
entertainment of the Hall was the following
large letters from Linaro -

Item a ride round the world in quo Chas.
This evening have sent to our War Office
In the like the following passage from Cedric Summer.
"Vere magna longe publica rumine scribi -
I need not say that I was much gratified at

the success of those parties, as all my friends
called around me & gave me their countenance
support. In addition to the numerous
I had a large collection of books of all kinds
from all quarters - books of art history of
all kinds - some splendid examples of litho-
graphy & a great number of fine specimens
of ancient Mexican pottery contributed by
my friend Chirly. You may imagine that we
all had enough to do. I depended on the
official card of invitation sent by my
Seward & Whittle - my daughters & I
wrote between 7 & 8 o'clock, and it occupied
so small time to run up the dresses and
on the walls. It was not however till
threw away - in one year one microspira
of note thanked me for giving them just a
birds eye view of the midwest world
as they had never before seen - Since the
last three months of mine has been entirely
occupied in the affairs of our Govt. in addi-
to my prep. but I have nothing able
to bear home on an exhibition & I much
doubt whether I shall be able to do this
in the like the following passage from Cedric Summer.
"Vere magna longe publica rumine scribi -
I had just left the
ground upon one of our celebrated deceased
entomologists - W. B. Say - all pleased me much

of Germany. You know of course that he
has been appointed Curator of the Museum
with a salary of £1000. ann. The
pleasure derived at Kew are rapidly improv-
ing under the guidance of Sir W. Ward who
can be remarkable for their rarity. I saw
amongst others - the Cistarea chrysophyllo
from California - a leaf of which General
the Wellingtonia was thriving as were many
other species but I do not think the
situation suitable for the majority of them
as it is far too low & damp. From the
terms of my last advices from Mr. Godwin
I should not imagine you will see many
this winter - as he was preparing to go to the
Sandwich islands when I should imagine
he will find so much to interest him - that he
will not be satisfied with a hurried visit

My daughters all beg me to present their kind
regards & best wishes to Mr. Gray by name of
P. Wilkins & events be of Gray by name of
your affec. & friend
N. D. Ward
An inclosed will be written to Mr. Gray shortly

My dear Gray

Mr. Chapman Rice
20 Aug. 1835

It is not often that I sit down
to write to you with anything like worry or
reputation of spirit, but I do so on the pre-
sent occasion - fearing lest you & Mr. Gray
should imagine for the moment - that we
do not sufficiently estimate, and endeavour
to avail ourselves of your kind repeated
invitations to visit you in Boston - the
fact really is - that I cannot afford the
expense - The love of natural science and
the acquisition of wealth are in a kind
more incompatible - I do not say this
out every day in the week - only at odd
times & without losing his patient
but a love of botany or a branch of nat.
history is unpayable - Do not think
that I regret the election I have made, as
all the virtues in the world could not have
afforded me a more delightful gratification

those derived from my connexion with
science and its Doctrines. When I go back
on the numerous occasions at Park Place
and think of the number of friends who
valued it not so on those occasions - and
whose exertions such instructive and
magnificent displays of God's wisdom in
Creation were produced - I cannot but feel
that - though poor I am profiting rich.

Has I however abundance of this world's
goods. The very uncertain state of health of
my dear wife would preclude any long
absence from home on the part of myself or
daughter. - About a month ago Mr. Wh
had a respite for 2 or 3 weeks from pain & was
able to get into & enjoy our little garden -
when the setting in of continuous wet
weather reproduced her neuralgic attacks &
again frustrated her. - She is just now
thank God again improving - but I fear -
we must still expect an very material
change for the better. While you were here
my garden has continued to improve in interest

and begins really to assume a very wild &
natural appearance. You will be glad to
hear that most of your plants have thrived
well amongst them nearly all the ferns -
the Sanguinaria - Jeffersonia - Peilone and
indeed the latter being quite new to all
the Botanists - In my large sun house seven
or eight Jersey Lizards are making ^{themselves} ^{on}
as happy and add much to the beauty
of the place by their brilliant colors & lively
movements. - This morning glass since I
left home - and I have to come for a little
country air rest. - I hope if not disappointed
to get to the Brit. Association meeting at Glasgow
where I shall meet many of my old friends &
add not a little to my cryptogamic collecting.
I wrote in my last despatch. dendrocarpum al
belate Mr. Marshall - I have now a patch
of it which I really think will live. Sir
W. Hooker told me that he saw it planted -
Mr. M. having sent it from America
& imagined it to be a dwarf Conifer. Dr.
Hooker is now on about the Herbaria

Asaphus R. 11th 1855.

My dear Dr. Gray,
In dear Asaph's absence, I opened your note, to my extreme pleasure & surprise found you were in England. -
Dear Gray thought I had better write you a few lines to tell you of dear Asaph's movements. He left this morning in company with Dr. Dean for Glasgow to be present at the meeting of the British Association, which lasts about eight days, during that time he will reside at Mr. Gourlie's, 39 Syne doch St. Glasgow, after them, it is his present intention to visit the lakes of Cumberland &c, to be home about the 28th or 29th of this month - I mention this

as we trust by that time you
will be able to make arrange-
ments to stay with us, as we
have plenty of room & I am sure
I am only anticipating what
you wished when I say so, as I need
not say what qualification
it will be to us all to have
you once more to fresh at
our home, I only wish dear
Genl Gray could have been
with you - Sincerely hoping
you have found your brother
in law improving in health
with all our very kindest
regards

Believe me to remain
Yours very sincerely
Ann Ward

I have forwarded your note
to-day

collected nearly £200. out of which
I have been able to send a two boxes
supply of medicines. I send another
letter from W. B. from Sydney dated 26.
Dec. in which he gives me a description
of his visit to one of the Far East -
group of islands - and of his visit
to the Cannibal Chief where from
he was obliged to prostrate before
he could obtain in his territories -
Marsys first object was to obtain
a new spec. of Dammarra for the
Ayrey garden - I sincerely trust that
Mr. Gray is quite well & Mr. Lane
also. We hope some day to see you
all here again. Nothing would give
us so much pleasure - My little
garden is beginning to look very fine
owing not a little to your kind Entitling
With our warmest kindest regards &
best wishes to Mr. Gray. I believe
Every Your affec. friend N. B. Ward

My dear Gray Mr. Clapham Esq
26. Mar. 1830

Mr. Gray and his wife have
certain sympathies with us. We are
on the 13th we have sustained by the
death of our youngest Daughter - Eliza
who when we were in England was
app'd the healthiest of the family. Some
months ago - she had a slight cold
with occasional fits of violent shivering -
although it did not app'd interfere with
her health much - yet excited the
suspicion of my eldest son - who examined
her - and although he could not
detect any perceptible lesion - yet the
continuall use of the emetics - induced
us to send her to the South coast
where my brother's family were staying
but she remained several weeks
without any diminution of strength &

looking so well, that neither her uncle
nor her Aunt thought there was any thing
the matter with her. On her return,
however in Feb. there was still the same
affliction - we determined that she
should spend the winter at Hastings - where
she was placed under the care of an
eminent physician who had studied
pulmonary complaints. After about three
months residence there - this physician
wrote me word that she was so much
improved that I might make my mind
easy about her as he felt convinced she
was only suffering from some mere local
affection. - Very shortly after this the
acute nature of the disease manifested
itself and in the third week of February
I was both too glad to be able to remove
her to the bosom of her family as it was
but too evident that no earthly means
could any longer be of service. She lived

but ten days after her return home -
dying on the 2d of March. Through
the whole course of her illness when
fully aware of her fatal tendency she
ever welcomed us with a smile &
her last hour was so peaceful & happy
that - sad as the trial has been to us
all - we need not desire her calm repose
here. - Her Mother bears up with
perfect resignation to the will of
God - and seeks for comfort and
consolation where only this is to be
found. - You have I suppose
heard from Harvey at the French
Islands & have seen the letter he
addressed to me on the subject of
supplying the terminaries with
medicines. I have been very successful
in my applications - having already

favorably. I suppose we shall remove
during this winter to our new position
in Burlington Lane. The expenses of
removal, amounting to near £1000 - have
been already met by subscription amongst
the Fellows. - Pay to Dr. and Mrs. - when
the next few days a visit - to join our
L. club - either at their dinners or ex-
cursions. You mentioned in one of your
letters the prob^t that we may again
have the pleasure of seeing Dr. & Mrs. - you
in England. Need not tell you that my
Wife and daughters would wish nothing
in endeavor to make you both comfortable.
What do you say to coming here next
year & going with me to the 3rd. of the
Meeting at Dublin? - Stephen & N. W.
are doing well in their respective walks.
The former is much pleased with his new
apartment as they say. To the Dread nought
as it comes in with his ethnological
pursuits. With the kindest
regards & best wishes of us all for many
approachers of the approaching festive
season to you & Mrs. - May - I bid you
ever / your affec. friend
N. B. Ward

Clapham Lane
3 Nov 1856

One of your ever welcome
letters has just come to hand - and
I have again to thank you for your
renewed kindess in sending me a
copy of your Manual - which I am
sure will afford so much pleasure
& information. Our dear friend Lowe
returned home - as you will of course
have heard - about a month back. I
had the great pleasure of finding him
at Clapham - awaiting my arrival
home from an excursion in South
Wales & Devonshire where I had been
for about 3 weeks with Charlotte
& Mary, enjoying ourselves greatly
& staying home - of course lots of news
from my dear Harry appeared in very
good health, a little attenuated, perhaps

but Perron in a very satisfactory state
& not a little delighted to become more
among his friends — ^{1st} will
not overwork himself during the winter.
Gombrich has just reached me — and we
can contribute greatly to my delights,
particularly with respect to the Hook.,
amongst which I happen to be working
at the present moment. Although I
have long since given up the purchase
of dried specimens — (I have a lot of
civilization but of means) — I could not
resist the purchase of a fresh set of Wilson's
British mosses, as I am now growing
very many of them — along with some of the
smaller British ferns. A friend of mine
so happens to reside at Liverpool — has
a large Botanarium in which he collects
nearly all the British Mosses,
and has enabled Wilson — by means of it
to add more than one new species to our
Flora. I must have Gombrich & Lycopodium
Musci Boreali-Americanus and will feel
greatly obliged if you will either order a

copy for me, or tell me whether it is
procurable in London. As soon as I
receive it — I will remit the purchase
money in any way that may be most
convenient — But may I add for your kind
leave in America — I do not altogether
despair of paying off Mr. Gray a visit
at present — however, I am tired of visiting
causes which confine me near home.
The principal tie has, of course been the
severe & protracted illness of my dear wife
but I am most thankful to say that her
state for the last 6 months has been very
much more satisfactory and I do not
despair of seeing her even still better
as her neuralgic attacks are by no means
so severe, and she has received a little
fleat strength. Nothing I know would
please her more than for me to run over
to you, as she is never so happy as
when she shaws — am enjoying myself
among the beauties of Nature, or amongst
friends whom we both love — my wife
is glad to hear that our dear & dear under
the presidency of Bela, is progressing most

My dear Gray

Caplan Ave
28 Jan 1857.

Re writer of the enclosed L. S.
is a most worthy man and one whom
I wish well to. His projected work on
the ferns is much wanted and amid the
endless confusion of dyscrasias existing
at present in that Order and - if you
can oblige him by solving any of his
doubts - you will be - I think, conferring
a favor upon science. - We shall
have a grand microscopical Party at
our Apollo Hall on ^{the 2nd} of April the 20th to be
followed by one on the 2nd of the ^{2d} ^{2d}th
for Lectures - How much I wish that
you & Mr Gray could be present -
Kind and of your Countrymen a friend
is indispensable that time. It will give
me great pleasure to forward to them
cards of invitation - I am sorry
to say that my dear wife is

upon the whole better & that the rest
of my Daniel are pretty well except
Nath who has been overworked. He is
now recruiting at Brighton. I continue
to add to my garden. The *Sarracenia*
purpurea has now withstood two winters
in the open pond - planted in a drain
pipe. The roots within 3 inches of the
water. The *Longiflorum* & other plants
you sent me contribute not a little
to the ornament of my little paradise
and I am now adding a number of
mosses to the collection which will
I hope succeed & interest the Botanist
By the bye I can give you duplicates
of nearly half the B. Slides - should you
wish to have them. - Anbey sent to give
her love to Mr Gray & say that she hopes
to hear soon from her. - Should you have
any new microsc. object prepared write
you kind friend in time for our approaching
display at the Hall. - - - With our
united kind regards - love & best
wishes - Every year affect. friend
N. D. Ward

of the simple sufficient way in which treatments
are formed by means of the Pharmacostic Perfume
~~Carrying the perfume fine to the vessels of the credit
and then applying both the word of the cure.~~

In human works, who laboured in earth & pain
A thousand movements scarce one purpose gain
In God one single can its end produce

And serves to second too - some other use? —
We have now been at home for a month - all much better
from the change. — My dear wife continues still extreme
weak - but I don't think she has had as much pain
as usual. It is very sad to see her constantly bowed down
by suffering & debility but she is wonderfully supported
well knowing that it is all for the best. — Myself Mr. Gray
are often in her thoughts & she would much like (as
would we all) to see you both again. — Hovey paid
me a visit on Sunday. He is now at Chey - working
out his intended "Flora Capensis" - I. Mother & his wife
are quite well. The latter has just lost her brother
Mr. Manslow. — D. Night is well - but is occupied
with farming matters - that I question whether he will
ever again set to work at his Herbarium. Should you
want specimens of any particular family, I have no
doubt that Night would send them to you with pleasure
or I would go & get them for you. — I have been so
wholly taken up with Nath. C. & other matters that
I have not yet sent Mr. Eaton the copies. They will
now be dispatched in about a week or ten days.

Stephen is getting on well. He likes his position as
Physician of the Adm. Hospital - and has just commenced the
publication of a series of cases, commencing with adro-
minial diseases. — My leisure time is most agreeably
occupied with Hovey's "Herbals" - "Moses" & a sort of
vegetable treasures. With the kindest love, yours all to you
& Mr. Gray & the best wishes for the return of many a happy
Xmas. I believe me ever Your affec't friend &
N. B. Ward

My dear Gray

11 Clapham Lane, S.
25 Nov 57.

Our dear friend Hovey has just com-
municated to me, the copies of "Mosses & Ferns" he
have sent me in the "Mosses" "Ferns" in America
most sincerely do we all grieve with you at the
that I believe the loss of wealth & the general
in evil but that with command of Mrs. — your means
of useful rep are crippled. I too in this way
have my trials. — My second son Nott. had just
succeeded in establishing himself in practice when
it pleased the Almighty to afflict him with a
severe mental attack which has for the present
severed the tie between him & his patients - and he
must begin life over again but I have much cause
for thankfulness on his restoration to health, and I
trust he will benefit by past experience, and not
again overwork his brain. We have been spending
two or three weeks in the New Forest - Hampshire, where
I often wished for you and Mr. Gray as I am sure
you would have greatly enjoyed the scenery and given
you some little idea of the district although words
can but very inadequately describe the reality. New
Forest has been a forest for several centuries - contains
93,000 acres of which about the present time about 30,000
are cleared & occupied by little villages & gentlemanly
seats whilst the remainder is covered by the most luxur-
iant growth of Oaks and Beches. I have ever been
with Hovey and there magnificent specimens of both
Oaks - Chestnut - Horse Chestnut - & Fir & Elm -
the ground carpeted over the whole extent - in the wetter
places with Myrica Gale & moisture loving ferns - as
Asplenium - A. filix farina - Blechnum Oreade &c

whilst Peris Agulina ~~now~~ in all its richness,
of autumnal fruits, deckates the dinner ~~before the~~
lower portion of the sub-hall. The ground is most favorable
for pictorial effect being exceedingly unequal, forming
in many places lofty ledges from which fine panoramic
views of 15 or 20 miles in circumference are to be obtained
whilst in others the forest glades are so deep and dark
as to be impervious to the rays of the sun - all dash
amid the blaze of noon. - The most interesting inhabitants
of the forest at this season are unquestionably the pigs.
Every inhabitant has the privilege of sending a number
of pigs to fatten on the acorns. Each must be paid
of $\frac{1}{2}$ for each hog a sow and of $\frac{1}{4}$ for each boar or young pig.
The great object of the industrious laborer is to save from
his winter and spring farmings enough to buy a few lean
pigs - these pigs collected together from all quarters are
introduced to each other for a week or ten days, and fed
in the same way. They are then taken into the forest - a zone
2-3 miles from home - have a bed made for them of
the boughs of the common brake and a good supper given
them for the first & sometimes the second night - after
which they are left entirely to themselves - and although
they may ram for a mile or two in search of food during
the day always return to the same bed at night - never
go astray - nor associate with any of the other little
communities of pigs that are roaming about in the
same forest. - The Rev W Gilpin in his Forest Scenery
speaks in terms of laudation of the pig - He says that
it possesses much more intelligence than is usually
ascribed to it - and that its language is more expressive
than that of most animals. - W. G. was one of the few
men who devoted his life to the improvement of the con-
dition of his agricultural neighbors - and that in the
most efficient way by rendering their homes as com-
fortable as their lighted hearths would allow. The

cottages are perfect models of neatness, beauty, clean-
liness & comfortableness and lovely without. - Soddy in his
Doctor says - that where you see a Shrub or a Waterflower
or a pink outside a cottage - depend upon it - there is a
postbox in a cabbage for the post within. - Hence this is
full peasant. - Most of these humble dwellings are
finished with a porch and all are covered with various
kinds of beautiful plants. - Porches not worth more
than £4 or £6 a year are covered with climbing roses
honeysuckles, Clematis, etc. &c and it would I am sure
take a good deal of M. B. Dixie's heart to have seen the
lovely intermission of our Foxglove, your Virginia
Creeper and its crimson or saffron autumnal leaves
festooning over the porch and around the double
windows of these lowly cottages. The poor inhabitants
appear to be in all respects well off. - No symptoms
of poverty or want were to be seen and during our
sojourn we did not encounter a single beggar. Our
weather was most favorable - alternate clouds and
sunshine just the combination required to set off a fair
scenery to the greatest advantage & especially that of the New
Forest - which is not as of old one broad lip of light
of shade. But a most happy admixture of all that is
beautiful & lovely. Little did however, except myself
to describe that - which with your excellent writer
Miss Cooper in her Journal of a Naturalist in the U. S.
says is indescribable. - From Lyndhurst we went to
the four prettiest & scenes of places - Bournemouth where
we staid a week & then went on to Weymouth, a very
interesting locality - the Isle (as it is called) of Portland
& the new Breakwater deservedly a clapping match for our
attention - On the latter bottom are still employed those
beachcombers of years gone by - who shaped before it
is completed - I need not but reflect upon Darwin's air

My dear Gray

W. Clapham
Ains. S. 31. Dec.

I think I wrote you in my last that the health of my dear wife was failing. Since then she continued to get thinner and weaker until the 25. when God was pleased to release her from a state of trial suffering which had lasted for several years during the whole of which not one word of murmur was heard from her lips. Her end was not peaceful. Happy surprised by all whom she most dear loved and for whom alone she lived during the whole of our long wedded life.

Never know her to have a selfish
wish or do a selfish act. He is
now - I trust - reaping the reward pro-
mised to all - who in humble reliance
upon their Saviour - patiently continue
in well-doing - The house seems a
sad blank without her - for although
she had been engaged for 3 or 4 years
she took a most lively interest in the
times of our breakers of her Fair -
nothing ever going by so much capti-
fication, as the little journeys of
ourselves into the country - when she
knew we should be deriving health
from a number of
short
but
altogether unprofitably
coursing past both
into ourselves - and so by the grace of

God to act that - this blessed
we may again be united in endless
bliss. This a great consolation to my
young ones - that none of them were pre-
vented by any cause from ministering
to their dear brother night and day -
You are all thank God pretty well
united with me in love to the poor
and myself & her brother - for the
mind clear -

Ever yourself. Friend
N. D. Ward

Unknowable! and where could they find a more magnificent dwelling place for the deity than that of which they were surrounded - to which they surely attempted to imitate. We staid for over 5 days with the owner of one of the Lakes (Leathes Hall) and had an opportunity of learning a little more of the inhabitants than falls to the lot of hasty tourists in general. However greatly one might be delighted with the natural scenery one feels still greater delight in the appearance of the inhabitants - We did not see a single beag or mite the whole of our journey nor see a single barefooted person of any age or sex. You know well how greatly the pleasure of a trip to Killarney is marred by the wretched poverty-stricken appearance of the inhabitants - but there all is in unison - in Country - fresh and fair as on the morning of its creation - and man looks upward - having some respect to the dignity of his being.

But I must close - I am happy to see you that Stephen & Natty are both well rising in their respective walks of life & that yr family here are all well - I find abundant amazement in one of the big walks of Botanical science - which I think likely to afford useful practical results - With the best wishes ever all to M^r Gray & yourself Believe me truly to be your affectionate friend
N. B. Ward

My dear Gray

Olmas 1833. -

The return of this happy season always brings more vivid to my recollection our sweet friends and former than I can with truth - since you now have a stronger hold on our affections than yourself & M^r Gray. We are looking forward with much hope to pleasure in the expectation of again seeing you at Clapham & trust that you will not let another year pass without paying us a visit. Miss Ward wrote - she has done on as usual with the exception of a most pleasant excursion to the meeting of the B. Association at Leeds - where my Mrs & myself & daughter and I were most hospitably entertained in the house of one of the first physicians there - and Doctor Thomas whom we were entire strangers but who had visited us - because so long previously he had breakfasted with me in W. Europe after my having awarded him one of the Botanical prize medals - Read three papers at the meeting - one on Suburban Gardens - one on Aspernia & the B. (very unexpected to myself) on some of the advantages derivable from the study of Botany - His last paper originated in a communication Prof. at Leeds from the Bishop of Ripon - & the following effect

in the conversion of an entire parish through
the instrumentality of flowers. The Bishop told me
that the parish of Arnecliffe in his Diocese
was tenanted by the most lawless set of peasants
in his whole Diocese. In consequence of these
not having been a resident Clergyman among
them for many years - the living - (L300 per annum)
being too poor for a poor Parson - & too uninvita-
tive for a rich one - until at length a Mr. Brod
determined to cast his lot among them & endeavor
to humanise & Christianise them. To this end
he surrounded his house with a lovely garden
full of choice flowers and with no fence
would suffer his unwilling parishioners only
breach his shoulders to admire them - telling them
that God had made these for them - as well as for
him and that - if they liked to have some - he would
show them how to make them grow. It has been
got into his dwellings - and those (who hadлевад
their wives & children to die from want of flight
from faith & abominations of all kinds) removed
all the dirt - opened fresh meadows back for
the reception of the flowers. In this manner the
work of reformation commenced - and the results
have been most satisfactory. There is not a more
contented & happier set of villagers in all Yorkshire
than those of this lately converted parish.

After the meeting at Head we proceeded to the

lakes of Derbeland & Westmoreland which under
the guidance of some local friends - my daughter &
I enjoyed most thoroughly - despite of the weather
which was very wet & windy. This bad rain however
enabled us to see & enjoy in perfection the rich
naturalistic lists - which in sunny weather are too
frequently obscured in mist. While not attempt to
describ the varied beauties of this part of our
island. Neither pen nor pencil can do them justice.
It is curious to observe in a country the whole of
which would seem to be admirably adapted for all
our ferns - the restriction of certain species to certain
geological formations. Thus - at Whelbarrow Scar in
Westmoreland - there is a large tract of water worn
limestone slabs - the fissures between which vary
in depth from 3 or 4 inches to a yard & a half - are
filled with a dozen or more species of ferns - but
among them not a plant is to be found of *Asplenium*
crenatum - one of the most abundant ferns in the two
counties - but confined to the slate rocks - which
in these latter you will not find either *Polypodium*
aculeatum or *Lathrocina nigra* - which abound on
the limestone. Near Kendal is one of the finest
trigonal circles in the country, situated on a com-
mencing eminence surrounded by a circle of
mountains. Like many others, I could not help spec-
ulating on the origin of these mighty temples to the

the most interesting portions of my herbarium will be
in a region which exhibits a rather illustrate
variety of climate - one in the means of
faithfully groupedsemblages of shorter vegetation
which but only give most true indications of the nature
of the climate under which such plants were growing
but which show the variations ⁱⁿ individual
species by varying conditions. I know of this
kind were more detailed we should not then require
a Botanist to keep the species within their proper
bounds. - A mountainous region offers some ad-
vantages for study of this kind. The constant supply of
water from mountain hills produces a very differing
appearance in the vegetation. - & that within a
few feet on the hill sides. In the course most
of the mountain passes the contrast is most striking.
A peasant girl will be seen filling her pitcher
at a little natural fountain by the road side. A
strip of the liveliest verdure will be seen ascending
to the very summit of the hill, whilst all around
is utter barrenness & desolation. But with all
this you must be as familiar as myself. But
my paper warns me to conclude this chit. My
borders is most important. Harvey says it
ought to be called the Wildernes - a name it
certainly deserves. - but of a few are growing
magnificently. - We have heard that Mr. L. has
obtained cowslips as could be wished. Do you not
real think that a visit to us would be of great
service. I cannot tell you how delighted we should
be to see her. With the most love of my dear sons
and myself to her & you. Believe me ever truly
John New

My dear Gray

Be Dens 8 Oct 1851

Although I believe you are indebted
to me one or two letters. I must take the oppor-
tunity of this writing to Mr. Gray to enclose
after you yours - You have always abandoned
valuable herbaristic information to communicate
with myself. My life papers are most lonely & etc.
when received framed by comm. or visits from
dear friends. like yourself, Gray or Coker
or when I run away for my annual holiday which
this year has been a most pleasant & most con-
siderable one. - Ann, Charlotte & Louisa Bayn
in the middle of July & spent a very delightful
month among the mountains, Laffers Wallies of
North Wales. Taken as a whole. I believe the
scenery here is unrivaled in Great Britain.
Only our first-rate landscape painters - David
Cope paid no less than fifty visits to the Moors of
Cader - within a few miles of Snowdon. - We paid
a visit to that a one also to this lovely spot
figured to yourself three mountain ridges rising
divided from each other by mountain of 1500 or 2000
ft. elevation within an area of not more than 6
or 8 miles in diameter with the usual accomplish-
ments of waterfalls, rustic or extemporaneous bridges

made cottages - thatched with mossy purple
vegetation of *Peltigera vulpina* - *Ledum palustre*
Dracopeltis with here & there a little patch of *Salpina*
(most brilliant green) - surrounded on
all sides by Scotch Fir & Larch for which latter
sometimes rises to the summit of the hills, whilst
in other places - bare pinnacles of rock as if by
way of contrast - alone are to be seen - Indeed I
ever revisit Wales - I should certainly spend two or
three weeks in this locality. But the whole of
the country when seen under any circumstances but
more especially under the influence of misty clouds
beauteous offers a series of views of the most
enchanting character. One of the places we visited
which gave us unmixed delight - was Penrhyn Park
state of Larmer, in themselves most inspiring from the
extent of the works & their position amid the loftiest
mountains of N. Wales. But the great interest arises
from the condition of the labourers & their families
amounting altogether to nearly ten thousand persons.
Col. Pennant & Lady Liverpool his wife - like Wolfe
some others of your great men - employed their great
wealth for the benefit of those around them - They
have built & endowed two Churches - four schools -
I have moreover established a model village, every
cottage in which is beautifully built - with a large
garden full of choice flowers - the majority of which
are raised by Lady Pennant in her own grounds. The
head gardener told me that 600 - 700 dozen of bedding
plants are annually raised in the gardens of the Castle

principally for the purpose of supplying the gardens
of his model village & the gardens of other
individuals & their workmen. Penrhyn Castle is
itself a most interesting structure built to accom-
modate the adjoining Castles of Caernarvon &
Conwy. It cost a million & a half to be situated
in a most interesting park of large dimensions, com-
mending various places some of the finest sea
& mountainous views in the country. The arrangement
of the whole of the extensive pleasure ground is most
perfect & in excellent taste. All has done every
thing in it - but is nowhere to be seen. We spent there
a few most pleasant days - in the water - chiefly in
the Menai Straits - whose banks are beautifully wooded
were never weaned in admiration of the Menai &
Dubular bridges - We visited - among other places -
Puffin Bay Island & Dwyryd Island - the latter remark-
able as having been the burying place of many of the
birds of Wales - I never saw - but once & that in Janu-
ary water so transparent as that which washes the shores
of this little island. Lay before the boat grounded - we
could see at 2 or 3 fathoms depth - the whole of the
submarine vegetation, forming quite a forest & could
distinguish with perfect ease - all the species - a black
pig might easily have been distinguished at the disinte-
grated rock - upon which the plants were growing
I need not call to mind - the description given by
Name of the reefs in Dwyryd Island. - I made a
few additions to a large collection of Algo not so much
new species as of old ones - under a new face -
i.e. modified by varying climatal conditions. - One of

interprets' - endeavoring to show - that
there are aspects of nature everywhere a man
as - which - of right - misinterpreted might
prove infinite utility - as afford the most
reliable proofs of climate conditions

I have already sent numerous valuable
illustrations of these facts - derived from
Island - Cumbria - dry mountains, wet
mountains &c &c the specimens telling
most unmistakably the varying amounts
of moisture - light - nature of soil &c &c
Ten days sheet is a beautiful object
as all objects are & must be in Nature
when considered as a whole, & in connexion
with each other. - One portion of my
series will exhibit a large series of brown
hair dark of Europe - arranged according
to their elevations. - But I must end

If you happen to have any duplicate sets
please be kind enough to them, as I have been
working away at them for some months - and
am afraid to lose them - My daughter
wrote with me in late Oct. to Mr. Ward
& believe me here your aff. friend
N. T. Ward

N.B. - We shall fully expect you here next year

My dear Gray

The Dens -
Clapham Park -
1 Nov 1860.

From kind friend D Green -
sailed here last eveng. Dr. Gray (most
unexpectedly to us) has farewell
visit - He leaving to day for Liverpool
Take the opportunity of sending by
him the two packets of maps which
you recommended me - along his
apo - to send the W. S. Sullivan and
to Mr. Cattan - whose Christian name
I believe is John - it will be well - the
wife have the kindness to correct
my address. - I think you said in
one of your letters that you would

forward their parts. — I have this year spent a month on the Yorkshire coast - but was not part. fortunate in making a spain to my mind. & so in consequence of the exposed nature of the coast - the northern seas sweeping clear the rock pools - The only productive field was in the Lamination zone to which access was only secured at low water tides. when the *L. digitata* was a sight worth seeing - its stems of 6 feet long in length being completely coated with a profusion of beautiful although common *Th. ex.* with various mollusks & zoophytes. — At Scarborough I had the great pleasure of making personal acquaintance with Mr. Bean who - now in his 76th year - who is also spec. of the *Lotta et vegeta* section - so well pictured by him. In above 60 years has Mr. B. devoted himself to the illustration of

the natural history of the Y. Coast, often leaving home in boat for Whitley - 20 miles distant - with bag & mallet & brush - working away for 5 or 6 hours at Whitley either on the beach - or suspended by a ladder from the summit of the cliffs - & then walking back to Scarb. - with a load of 3000 to 4000 shells on his back - His shells have recently been purchased by the British Museum for £ 100. — He has still most complete & beautifully preserved specimens of all the shells - freshwater - marine - corals - corallines - crustacea - echinoderm - radiolaria &c &c - Dr. Lucy who paid me a visit was quite astonished at the perfect state of preservation in which the most delicate & contractile animals - were exhibited as for instance - the spec. of *Ophiurus* &c &c

I am engaged to give a paper at the meeting of the B. Association at New-Haven on 'aspects of nature' - Do not - for a moment suppose that I am entering such a field as a rival of Humboldt - but merely following him - as a humble 'natural minister' &

and ascertain the amount of bolt love professed
by his school children and the good effect produced
in their minds & dispositions to so favorable a
pursuit. — Had the opportunity of alone conversa-
tion with Henslow on the Darwinian doctrines to
which he was wholly & fully opposed — not
thinking them to be tenable on philosophical grounds
and having moreover to shew the faith of
sincere & kind Christians to me that I
think entirely with him notwithstanding my
having read your observations (freely & I thank
you kindly for the great attention Henslow told
me that the subject had been one of great
interest to him — the more so — as Darwin had
been one of his pupils. — My garden is becoming
more & more wild every day — and — if I am a little
less spry — I shall I think venture to ask
you to send me another care of plants — I think
I could now manage to grow *Lycoodium dendroides*
Strophantus & *Lathyrus sativus* & possibly
Desmodium without any artificial heat. — All sorts
of cypresses that used to baffle me — and thives as well
as on the native Wall or Northoreland & Peppermint
grasses & flora finds itself as much at home again
as in the Irish bog. — My daughters are anticipating
with much delight another visit from Mr. Gray
I sincerely hope that they may not be disappointed.
All my wishes & love & best wishes and
Believe me ever / My dear Gray

Yours most affec^t friend

With you kindly forward the enclosed to Dr. Green —
note written & think Mr. Calm for his kind present
which occasioned me much

My dear Gray

Boston 6. May 1861.

— Glad to answer your
most kind new year's letter, which I have
replied to in full, & could I have done so satisfactorily
but it found me in the commencement of a long
serious illness — bronchitis — which confined me to my
room for nearly three months — and I am but just now
able to say that I am recovered. In according to
this — Stephen had a repetition of affection of the head
arising from great overexertion of overwork at the
Hospital which threw him out of business for
four or five months — compelled him to resign his
post of singer to the Hospital, and although now
that he is recovering from his severe affection,
he finds that he has lost his voice — which
cannot be regained without great labor and the
exposure of much pain. But I have said
more now to tell you. Stephen has lost his
dear wife. She had been suffering from head
affection & epilepsies — of a rather alarming character
for a year or two, when after giving birth to a
fair little girl about 16 months ago — her health
appeared to improve for two or three months, when
the old symptoms recurred with increased severity
& with the addition of disease of the liver & lungs
under which she died about 8 months ago.
I was too ill to see her — during the whole of her
illness until the day before she died — when I
expressed thanks to God for her — I found her
most cheerful & spirits in the midst of her disease
of 16 months. — Her end was most tranquil.

Proctor little ill is quite well and is with you -
may suppose a great comfort to her bereaved
Father and to us all. My long illness has of
course weakened me much. A man in his 70.
year does not recover so readily from severe
attacks - but a fortnight with you can quiet Dr.
Night and herald him into E. J. Colletta has
done much to set me up again - and my present
visit here will I hope enable us to resume -
my professional duties as shortly. I expected to
have almost done with work by this time, but
in town has been curtailed (within the last
two years) £200. and - in consequence of the
English wasteful expenditure of money by the
London Drk. Corp. this however is a minor
evil which may be remedied in course of time.
Have now given you more than enough of sad
details - Let me turn to a brighter side of the
picture, in which I am sure you will go heart-
ily with me. You will not think it strange
when I tell you - indeed - that my otherwise
wearisome & infrequent - are compensated to
me by the opportunities thus afforded me of
judging the works - in addition to the Word -
of Dr. I am preparing a paper which I hope
to be able to read at the next meeting of the
British Assoc. on 'Aspects of Nature' and the
teachings? Many sleepless nights have been
most pleasant & I hope not unprofitable
spent in these contemplations of the Wisdom

of God in creation and I trust but think
it highly impregnable that it may and even
that the world would be wiser & better if more
attention were paid to Natural History pursuits.
But I am thinking too much of myself & of
your concerns - Allow me to sympathise
with you & express the deep regret with
which the mind of every Englishman I know
is now with you, are filled - at the
sad dispensations of America - which must
procurse incalculable mischiefs not to
themselves only but to all the world -
God grant that so horrid a civil war
may be averted - We affirm that none of
us feel any sympathy with slave owners &
wishes the downfall of the conflict to end in the
abolition of slavery - We would not look
forward to it with such apprehension -
but such a consummation, however devoutly
to be wished - can hardly be expected -
You will doubtless have heard from brother
infromlaroy - of the helpless & hopeless condition
(as regards this life) of dear Dr. Berard. His
stately mind however is such as to enable
him to triumph over death and to make us all
pray that we and may like him live. I desire
you to forgive me sometime before my illness
& the other made me promise not to write from this spring

the Laminariae Zone - as furnishing the
food for countless thousands of millions of
fish - one of the great sources of our
national wealth. - We have had in the
last month another death in our family
in the person of Henry Martin a nephew of
mine who had been suffering for years
from disease of the lungs. Some time ago
he was about to enter the Church - when
an attack of hemoptysis put a stop to his
career at Oxford - since which time he
had occupied himself in collecting rare
prints & portraits - the former he has given
to the Brit. Museum - the latter to the National
Portrait Gallery. His end was very sudden
from an attack of hemoptysis - for he had
been long prepared for the danger. His mother
has now all one son left - in New Zealand
and feels sad & bereft. - We are all quite
well but have spent rather a mournful Christmas
Pray tell me all about the state of affairs
with you & your wife. - We all feel most
sorly for you.

Believe me ever thy dear son
Yours most affecly
John with my regards to thy wife

In Texas
Jan 10 62

My dear Gray

I cannot comment the new
Yearletter than to wish you & wife
you and your good wife lots lots
of good wishes on the past year all
and at the same time to ask your
pardon for not having written long before
this. This causes huge prevented me
from doing so - firstly & the anxious
desire to communicate you on the near
prospect of a happy termination of your
civil war - which appears also to be
still far off - and 2dly to be enabled to
give you a letter account of my health.
My annual visit (this of to Dartmouth)
did me more harm than good - owing to
dark cold & windy weather for the first
3 weeks - so that I was compelled to
spend two or three weeks on the British
coast - and the weather being fine - I

am thankful to say I derived much benefit and am now considerably better than at this time last year, when I was confined to bed. I have just been appointed Treasurer to our Apollo Soc. having served an apprenticeship of six years as Deputy. One might obtain some idea of the horrors of war from these sled of mud ceilings. A month ago we com- mitted for 45,000 ounces of gunnison shot of which for the supply of the Army & Navy. This whole Gunnison alone costs us about £3000 and so you may imagine I have enough to occupy my mind indepen- dent of private business. I think I should soon break down were it not for the recreations which Poetry affords.

My natural groupings are appreciated all learned & unlearned. A short time I gave a lecture on "Aspects of Nature" and their teachings to a most useful institution

The workingman's Union - established for the purpose of affording a amusement and instruction to the labourer after his day's work instead of their seeking relaxation in the pub-house. It has already done much good - a book for my immediate subjects - the freezing ponds of Clapham Common - telling them what took place (esp. the freezing of water) and the fishes in the water. There had a great number of illustrations - esp. of the economic uses of Lapland - & with the object of comparing & contrasting the happy and innocent lives of the Laplanders with their deep sense of religion - with the lawless & unchristianized wants & wishes of the lower class. Among more civilized nations -

I had a most interesting & I believe, pleased audience in the often said - indifference to the beauty of the specimens. There being long joined the verse in the Psalms to "All thy works praise Thee - O God" - My next lecture to them will be on marine plants - part of the inhabitants of the

the Exhibition - as I have not been able to
make a descent - & I am not so bold as to
say the failure of sightseeing etc in Con-
tinental work. - The picture gallery is said to
be the finest in the world - but I am told
by competent authorities that in point of real
interest - it was far exceeded by the Manchester
Exhibition a few years ago. - And as of course
progressing - but in my opinion not quite in
the right direction as I think Sir W. H. would
have directed and not to be influenced by
the morbid public taste. - And I think

power of writing as fluently as yourself - I
would write a paper on the subject - taking
from my notes - "minimise the hide colour
I am happy to say that we are all quite well

I send you at least one of my "carres de visite"
in exchange for the one you so kindly sent me
one month ago - We all write in kindred
regards & best wishes to you & Mr. Gray. I
hope soon to have the pleasure of welcoming
you in England. Believe me ever

Yours aff. friend
Remember us kindly to Dr. Green & N. D. Ward
I. S. Am very much obliged for any of your
local stamps

Yours truly
John Gray

The Queen's China
20. Ap. 1862.

I have rarely read a paper which
gave me more pleasure than the one you have
so kindly sent me. "On the Alpine plants of the
Rocky Mountains" - I have now for some time
part been engaged in arranging a large portion
of my herbarium - under various "Aspects of
Nature" and some there aspects - are more
which are more interesting to me - than those
which present themselves both in the borders
of eternal snows and to which can be applied
the lines of the Latin poet. "Ultima. In hinc
est nisus et habet hinc frigus" - Is it
possible to obtain a set of these plants either
by exchange or purchase? - My friend John
Gray ... I trouble you as I did last year
I hope to read a paper on "Aspects" in before
the meeting of the British Assoc. which
takes place at Cambridge the first week
in October. - Could you not - write to Mr. Gray

come see the wind up of the Exhibition
& accompany me to Cambridge. We
should all assure be most delighted to
welcome you with at Chatham. My
fears are now in like their gay days
to the continued recurrence of rain. The large
patch of Ormeau is eight feet in diameter
and more than a hundred yards long & 5 f. broad
so above 1/2 of them in fine fruitification,
but I fear that the dear quiet war to which
you are engaged must engross too much
of your thoughts to allow you to dwell upon
the joy of botanical presents. I had
hoped to give this to have heard of
the peaceful termination of the war and
the return of your disunited Isles. but
the end appears to be as far off as ever.
I do hope you will soon be able to send us
good news. The Soc. of Apothecaries
a favor less ago had determined to give
up their garden at Chelsea - but I am
happy to tell you that at the last meeting

of the Committee it was determined to keep
it up and to make it as available as possible
for the instruction of the students in every branch
of botanical science & more esp. as regards
medicinal plants. In this ^{possibly} you
can help us - as we are constantly receiving
applications at our late for American
remedies. May often vegetable introduced
into your Pharmacopæia - Podophyllin
is one of the things often asked for
but with respect to the articles of the
Botanic Medico there is no small amount
of bias by about them. A man who has
nothing else to recommend him - puffs off
in distinction with some well known chemist
as a particle & the profit is divided - Another
ways getting on by giving explanations
of late at Druggists shops - and although
no fee is asked - the poor deluded patients
pay 3 or 4 shillings - for what they could
otherwise have to pay 10 or 12. I
suppose however these truths are not confined
to Great Britain. I have not yet visited

full detail of my schemes - hoping that you
from your experience in teaching will enable
me to correct what is wrong and to supply
what is deficient, as I am but anxious that
the Garden should not suffer through my ignorance.
In the Soc. for the Colonization of the scientific
public which they have so long and so well
enjoyed. - You are not perhaps aware that
55 years before they established the garden - i.e.
in 1699 - Mr. Gladson one of their Fellows made
a herbarium ^{Specimens} ~~Specimens~~ ^{Specimens} ~~Specimens~~ ^{Specimens}
published & dedicated to the Master Wardens
of the Soc. & I. G. & his travelling Companions
as the expd. was undertaken under the auspices
of the Soc. The list of plants found on this occasion
was the first local flora publ. in Great Britain.
Three other lists were also publ. - & plants at
Dartk. - N. Wales - & on Monmouths Heath - & from
as you have published the amended edition of
Gardner - I do so noted for the extent of his knowledge
not to have the degree of L. L. D. conferred on him
by the Mass. of Beauf. - Truly affeck'd to the part
either way of the Common Wealth - he was selected
the Judge of Beauf. - The paper is now full - you must
have had more than enough of Chelsea. Hoping to
hear from you soon & with the love and regards of
us all to you & W^r. Gray for my happy New Year's
wishes to both - Yours affec^t friend N. D. Ward

My dear Gray

The Ocean - Office 31.
Dec 1862.

Might long earlier to have written
you - but I have been much occupied and
much distressed - My son Nath^l - has been again
weakening his mental powers - and is now incapable
of pursuing his profession - and I fear will never
be able to resume it - This is a most sad blow to
us - as he was going on most prosperously - and
could we have persuaded him to take this early
it must have gone well - but it was not to be.
However painful the trial, we must be assured that
God does not willingly afflict us - and that all
will in the end be productive of good - I myself
however do have paid you little of trouble - You
must have enough of your own - in the disturbed
state of your Country - We cannot but think that your
cause has been sorely & mismanaged - and that
the chances of a favourable termination to your
troubles are none remote then ever - It has been
been a glorious country to have accomplished your
sewin ^{reform} with the prospective abolition of
slavery - but such ideas are now I fear less per-
severant - however - that all is well with you & yours

How greatly we wish that you and Mrs Gray
and yours mother visit - I am vain enough
to think that it would be a blessing to you both - I am
greatly obliged by Dr Parry's letter - One of the
most tasks beforehand on Thurst Gray - the Par-
lour was one of two cold rooms at the highest
point he reached on Mount St. Elmo. I do hope
right in supposing that this was one of the
Scandinavian flora which had migrated to such
distant regions? It is a question in which I
am much interested - and if a set of Dr Parry's
alpine plants is to be published - I should much
appreciate it and will forward you the amount
first in any way you may point out - The Chelsea
Garden occupies much of a time - I hardly know
whether I informed you of our uneventful pro-
ceedings with regard to its renovation - It de-
pends upon the and I am therefore most
anxious to make it as perfect a School for
Medicine as possible as well as for all lovers
of Nature - There will be no house facing the
east - 50 ft by 10 - for the best of interest plants
which receive only a few hours morning sun & to
be protected from the effects of frost & dry atmosphere
at the same time that they receive no artificial
heat - The two large larch houses - so much often

my recollect - are to contain Aspects of Nature
in tropical semi-tropical regions - and as
they will be as tubs on plots - and the plants
will be arranged into natural groups - they
will I am sure please every body - We have
another large ^{span} house in the centre of the garden
which will be divided in the middle for plants
requiring varying degrees of heat & moisture -
There will be a new & complete arrangement
of medicinal plants in the open air as we
are now - and numerous illustrations of
most of the important national orders, in addition
to which I intend to have a fine collection of
American plants - which I think we shall be
enabled to grow - as I have secured an unlimi-
ted supply of water - What little remains unre-
paired in the open air - may be profitably turned
to account - by experimental beds - on the effects
of soil upon plants &c &c - I do not intend
to have in fancy flower beds - We shall build
this apart a new room for the spiritual gardeners
which will be provided with sound books for
their moral & instructive & apologetical
and other specimens - I have thus entered into

P.P. heads - the reason is obvious - that these parasites having no locom. powers - the food must be brought to them
When I was at Lympstone - I went one morning at extreme
low water to the beach - sat upon a rather a rough
allowedge of rocks - with one leg in the Bristol Channel
& the other in a large shallow pool of varying from 1 to
2 ft. in depth. In this shallow pool - the *Chondrus*
Cruspius was growing in extreme luxuriance - whilst on the
edge of rocks exposed to the beating waves of the
Channel - the pools were very narrow - all more than
1/2 of the width of the others - but were completely coated
with *Aspergillus* to the very tops - whilst there was not
one to be seen on the broad pools - I am now going
to lend an hour at the Dr. Museum to consult some old
books on Gardening & have a chat with Forrester and his
assistant Mr. Cuthberts - a very able & estimable man

Mr. C. had not notice about medical class at Exeter - is
perfectly charmed with your Manual of Botany which was
of the greatest service to him - to which he says is the
most perfect book of the kind in the English language
I must now conclude - as I have filed my paper - my
dear Son is somewhat better - but still is never likely to
resume his professional duties. It was a sad remembrance to
all of great labour & great promise - My daughters are
quite well & write me love to you & Mr. Gray

Ever Yours most affec.

N. D. Ward

Apothecaries' Hall, Blackfriars,

London

E.C.

My dear Gray

22 Jan 1863.

The son of a very dear old friend
of mine - W. G. Snell who has been living at
Boston for 12 years - who came here 6 months ago
to visit his Father - is about to revisit Boston
frankly now - and I take the opportunity of writing
to him for the double purpose of introducing him to you
& of your making use of him to bring over to me
any publications you may have on the Chelsea Garden
Should the weather be favourable in their neighbourhood
I thank you much for your review of the life
& works of Desvalliers - I am quite charmed with it - I dined
with the old man when he was last in London in 1858 - at
the Soc. Soc. and the Soc. called on me at the Royal
& the Royal of Geneva - I must get the book with
which many just interest and others of men who have
done much in chemistry & vegetable physiology and
whose names are familiar to me - Unusual words.
I lately been reading a review of books in N.
America in Macmillan's Journal to which the Editor

speaks in the highest terms of Boston and its
celebrities & gives a glowing account of the prosperity
on a dry day in your University. The winter is evi-
dently not so bad as I have seen you have
written. The Professors that I have seen are
among the Professors that I have seen your great School.

The Chelsea Garden is now becoming much by
Nature. I think I have mentioned all I intend to do
but I am certain you can give me some valuable
hints. The primary object we have in view is the
classification of the medicinal plants which will
be affected by the present cold. of medicinal plants
we can procure. By illustrations of the most
important of the natural orders. The physiology
of Botany will not be neglected nor as far as can
be called out the connexion of Botany with geology.
& the remaining portions of the garden - it will be
endeavoured to encourage a more simple treatment
than at present prevails - were color only
is the desideratum - ^{minimum} re create color -
will be my motto - May help me - The wall
at Apoth. Hall - a hundred weight of Larch bark
can any of your druggists furnish us - at what
price. Our winter has been very open
and stormy - innumerable losses have occurred
on our coasts. but a little damage has taken place
on land - The underwriters are thus never speculate -

in winter - unless the ground be covered with snow.
The cold spell however of this winter suits me
my broodlings - and the wind is kept out by the
aspirator - My long winter gown ^{as} enables me to
get on with the aspects of Nature which are now
provincing something like a definite value - is indi-
cating most unmercifully varying climatic conditions.
of importance if one wanted to know the respective
amounts of moisture in North & Westmoreland -
the size & experience of the mosses growing on the
stone walls of the respective places would answer
all you - That between 20 & 30 inches of rain fell
at Bath and 120 in Worth. The amount of solar
light again not only by the colour of the leaves but the
state of fruit of ferns & other plants - but why do we
upon these things to you who know far more than I do
on this subject. - I have lately rec'd from Dr. Mueller -
some fine specimens of the *Alga* (rough dried) from
Western Port - Victoria - which present a striking
difference from a similar collection I made
ago - from Port Phillip Bays in the far greater size
& abundance of *Scutularia* & other Dog-plates to be found
in the former than in the latter locality. As far as
I know about the matter - there difference is indicative
a more disturbed state of the water at W. Port than at

With what pride it had been cheered by their predecessors
To none all, who they found how numerous also of the heroic
Students of the Metropolis were still anxious to furnish it (as
fewer than 500 having applied for admission during the past summer)
by unanimous resolution that the Gardens should be enlarged, &
that additional efforts should be made to render it as efficient as
possible for the fulfilment of the intended objects, to which it had
been so long devoted. In order to carry this resolution into

carried into action, it has been determined, in addition to the necessary
to make a new & complete coll. as possible shall include
of economical plants.

2. To enlarge the scope of the more important, redolent plants,
unrelated as yet to the nut-system.

5. To make the old cap to house, is. Attach the paper
to the tropical & temperate climates. — 12 11 4

to do with the two divisions in the *Prox.-distal* implants
as in the veins deeper of the *distal* portion.

5 To construct a cold house or mere cold shelter, in order to show experimentially the value of such protection in collecting plants in a cold climate.

Plans to & from distant parishes. —
I should a few rows of the first. gardens & to provide the

are with suitable books, letters, &c. for their instruction & encouragement. The members of the Soc. will leave with great satisfaction, but increased in every way. The Prof. will share the benefit of the valuable advice & information of their colleague Mr Ward.

The Parker & Harlan invite the general cooperation of their brethren in their endeavor to render their establishment at Chelsea worthy of the Soc. as a scrupulous body of they would be assured a mode in which valuable aid may be afforded in any struggle in the enforcement of the various So. of U. S. Laws. I hope you would be able to furnish us respects when you will acknowledge the efficacy of your friends in relations abroad, and particularly to the Northern & Southern Confederacy to so loose... This would appear to me that it is intended to render the faculty of the So. of U. S. & their pupils nothing less than the Parker & Harlan in the resolved form
John Wall Wheeler - Warley

Clancy, Cables } Wards vs
S. Love-Wheeler }

On the occasion of his visit to England a few months since - he found her a widow with three Children. His old love rekindled. & they married Mr. T. August. know nothing of it since left for Italy. I don't know how long she remains at Brissago. She's always in sole command. She charge of all plants you may have it is your power to send to the Garden. They may as well send you a copy of the "Water Scheme" to the members of the D. Slavick. - as follows.

The Soc. of Phys. Botanic garden at Chelsea.

The Members of the Soc. of Apth. from the earliest period
till now, have taken a very lively interest in the pursuit
of Practical Knowledge.

Recently after their incorporation with the reign of H. 8. we find them making for periodical botanical excursions in the neighbourhood of London; so early as the year 1632, the Society's excursions had become an established annual custom.

Dr. Garrison, the learned Editor of Gerrard's *World*, and an
eligious writer of the race has left a most graphic account
of several of these early excursions, proving that all the devotion
to & love of the Socia itinerantes' themselves, but the extent to
which this devotion was shared by the society at large.

The interest, thus awakened, almost in a strengthened
with time, continued in the century of their incorporation; he
society rendered a service for their members increased attention
on the propagation of their God's study, by establishing a Botanic
Garden of their own. The result of this interest is shortly
proven by the fact that, according to the formation of a sufficient
of the garden were provided by the members, in their respective
resources.

It was under these circumstances that, in the year 1673, the Soc. of Apth. became lessees of between 3 & 4 acres of land on the banks of the Thames at Chelsea & having considerably enlarged the land, adapted it for the purposes of a Bot. Garden. Such was the origin of the Day's Garden at Chelsea, which was the first garden in the vicinity of the metropolis established for a publick body, exclusively devoted to the advancement of Bot. also science. For nearly two centuries have the Soccy. maintained this Garden at their great charge, & frequently under circumstances involving considerable personal sacrifices on the part of the individual members; but on no occasion on which a strenuous effort has been made to preserve the Garden for the purposes to which it was originally designed, have the members of the Soc. been found deficient in the liberality & zeal which characterized their early predecessors.

The Soc. has sought & an³ reward in the Atlantic Shd
before been enabled to arrest the cruel adventure of Rob. Scott
Anne esp. on the opportunities afforded of sacrifice & glorification
of her. Underh³ for the prosecution of this branch of their profane
industry. To 2^o in the month of October, 1861.

and they have been working great & good men in the laying of the
highway body who have encouraged & aided them, & wherein,
efforts & interest he were full of bound of art & knowledge. In a
Letter of 1721, in the year of our Lord 1721, he writes to the 2nd Duke of Devonshire,
thus: "I have learned of my former Correspondent, Alleges of His
most excellent & wise advice of the Lord Gardner, to the said: that he
desireth the said Duke to be the author of the said that the said
Duke will & at all times hereafter be continued as a True Gardener
for the encouragement & propagation the said: to support the said
hereby, for the propagation of the power, to do & for to do good in the
world's creation:— For some few years past the said: "

have had to contend with numerous difficulties in their efforts to preserve the garden in full efficiency. By the present Board the expenses of the cult, & for your mode perfect nearly in the resources of the Soc. & with the other Soc. in care of buildings & management in its neighborhood, & the increased crowd. It is believed, in part, here created a feeling of disengagement, of want of opportunity to the course which the Soc. is now pursuing with reference to its continuous maintenance. — When the Executive of the Soc. however, reflected, how much benefit the garden had conferred in times gone

opportunity afforded us. In August - I hope to be
present at the British Assoc. meeting at Newcastle
where of I am made enough - I hope to read three
papers - one on the Chelsea Garden - in which I shall
give the Cal Botanical History of our Socy of Apothecaries
- a second - on the results of crossings of a forty
years duration - and the third - On ^{the} ~~the~~ ^{the} ~~the~~ ^{the}
Nature & their bearings - chiefly with reference to
mosses & seaweeds. In this last - I intend to take
the opportunity of explaining the marvellous diffusion
law - more especially as regards carbonic acid - I am
induced to do this from the lamentable ignorance which
exists among otherwise well educated men - I hope that
the present of laws which influence not the welfare
only but the very existence of animated nature -

I must think that in our class of people - there
are half a dozen - who know nothing of what is going
on in the world and would absurd them

for want of such masters. - I must now wind
up - with telling you - that we are all - thank God -
in preparation of good health - Stephen is progressing
most satisfactorily - and so is Natty - my little grand-
child Ada - is a very lovable child - although perhaps
a little too self-indulged - her health is however not too good - her
she will - as she gets older - improve by society with other children
She however - is very - on the decline - wishes to get to America
& believe me ever - Your affectionate friend
J. N. Ward

Apothecaries' Hall, Blackfriars,
London
E.C.

6. June 1853.

My dear Gray

I did not begin - (as I ought) my
letter with apologies for not having written
earlier but tell you - how greatly I was at first
hindred to welcome your friend Prof. Gould in
the day in which he ought to have been received.
He wrote to me on his arrival at Liverpool - to
which I replied by return of post - which letter I had
returned to me from the S. P. D. - and I heard no
more of him until Friday last - when he called at
Clapham during my absence - I was fortunately enabled
to spend a quarter of an hour with him at this lodgings
the same afternoon - I was greatly pleased with making his
acquaintance - & hope that when he next visits London
he will take up his abode with me as a house is
most acceptable female friend of London - has an income
of over £1000 - and a house
a mile of me - a most accurate
philosophical observer - Mr. Alcott - who has recently
been employed, in conjunction with Dr. Miller, in
observations on some of the fixed stars - with the

physiographic features. Their observations have been read before the R. Soc. To mention these things to friends you friend that he would not lose his time in coming to Clapham. - I have just received a card with much interest - your paper on the plants of the rocky mountains - Much gratitude for it. - The the types of these mountains to be produced I should much like to have a set of them - as I have a large coll. of European & Indian & Cape & Australian types - I should imagine however - that this tribe would not be so numerous as in Switzerland or our own Alps. - I am able to hear that your plants sent by Prof Ward are doing well - I have none - as well as possible as far as it has been tried - we have a fine trout brook with over which the water falls into a basin with fish & alpine plants - this house is a regular closed cage in cold & unfriendly weather - but not on the temp. since too high - we have the trees of lower & flat - through the intervention of nice green in front - and two windows which can be opened in the back. - The appearance of the interior vegetation is very refreshing - I have seen a much occupied with variolophobia - you have seen - I suffice myself in the Jones' - on the subject.

It has been I believe of use - in removing or allaying some of the morbid dread which pervaded all classes - a dread which was not altogether unfounded in consequence of the local way in which Vaccinia has been too often performed. An elderly friend aged 65 - has died from Smallpox - and an hundred cases - where I have resided during the last month seven or eight adults would have been split - except without it. - Mrs Nott - was at Killarney two or three weeks ago staying at the Lake Hotel - the landlord of which - had cut out from the Jones' & pasted in the Fly Leaf of a cooking book, a letter!! - Mrs & I hope to leave here on the first Monday in July for Dublin - to stay a week or two with Harvey and then accompany him & his wife to the Castle - Killarney - We shall doubtless enjoy our visit greatly and shall more - could you & Mr. Gray be of the party. The object of my visit will be to obtain plants for the Dublin Garden from the two Dublin gardens. For the 1st - I sent you yesterday from the Isle - a dozen poor Clapham circulars - and you would greatly oblige me by distributing them to such botanists as share an interest with the master & would help us. We shall be able - I hope - soon to reply in kind and

My dear Gray

The Deans - Chase - Oct 2. 26

It was most kind of you to give me the great pleasure of reading the publications of Dr. Parry as well as of Mr. Gray - his last observations on the Arctic Mountain plants & aspects of nature in general have greatly increased the interest of the collections, and I trust - when the weather gets milder & all worse to be out in the evening to lay by his spirit & his plants before the fire - the numbers of which will soon be delighted with them - I should like much to have a complete set of the *Flora of Svalbard* - if such a set is to be procured - as I should like to add them to some of my alpine sheets. Any information which could be given respecting their elevation or with what plants & mosses plants they are associated would be most welcome, as I do not like to make erroneous impressions in my aspects. Since I last wrote you I have been busily employed in collecting new material - discarding defective specimens & arranging round the whole - Part of Alpine & lowland plants - the alpine plants of the mountains I have found to be

flapse with those of the Pkhliu, Kamalga
& Tibet, the plants of Sweden Norway & Lapland
& those of the Arctic regions - no form separate
collections - whilst instructive specimens - either
as regards the physiological characters - or structural
are set aside for the edification of my daughters
young friends. I have to thank you much
for your offer of assistance in the exchange of
Cartes. I enclose you ten of mine, & shall be
very glad to receive of some of your botanical
capabilities in return. I leave the matter in
your hands. At some future occasion I may have
opportunities of sending the Cartes of some of your
distinguished writers - these of course cannot
be presented by purchase - & at present I have
not whether they are to be presented in London
or not. Will you kindly ask your personal
botanical friends to follow by example & write
their names at the bottom of their cartes -
This is I present from home - & Maria Mary
are on a visit at Plymouth at Capt. Dr. M.
Ballard's. I hope to spend a week with them

the beginning of next month, when the spring flowers
will be blooming themselves - I have this winter
seen little flowers now not in a garden - *Saxifraga* *lippia*
S. sibirica - *Lavojon* *lemon*. *Nordmannia* small
Primroses - Crocuses & snowdrops in abundance -
Stephen was sent for 10 days ago by Telegraph to
Liverpool - to one of the first able Engineers
in that city. He spent 2 nights & one day with
his friend - who sent him word days since an
extract from one of the Liverpool papers - stating
that their res. Townsman Mr. Bright had died -
in great danger from Bronchitis - but that thanks
to the care & skill of two or three of their
best Physicians - assisted by the eminent
Dr. Rickein - Dr. J. H. Ward of London - the men
happily to inform their readers that Mr. B. was
improving - yesterday Stephen rec'd. a letter
of thanks from the friend with a cheque for
150. Guineas - I am happy to tell you that
Nath. is better & that my daughters are all well
With the love their regards & us all to yourself
L. H. Gray - ever yours affectly
N. D. Ward

[29 July 1864]

Limerick next week - & thence to Dublin
in the autumn - Dr. & Mrs. Gray are going to
the Scotch Highlands - in their way to Glencoe
I add m. - My garden is really charming - Our
rustic seat all the bottom is shaded over with
a canopy of *Rosa canina*, intermixed with
which is a fine var. of *Polymeria sepium*
(said to be from N. America). The flowers are
half as much larger as ours - & most lovely
they are. Might I dare to ask you to send me
this autumn or in the spring - some of your
other ^{older} ~~young~~ signs - I think - now
I send you Dr. dead rotted & explanation -
Both of these you kindly sent me on former
occasion - but I did not dare enough
imitate their natural conditions - Would
you kindly give me an idea of the amount of
sun they obtain in your woods - When shall
Mr. Moore of Chelsea send you some of his
daphne - I was afraid never to find the other
day that Mr. M. had as yet sent you a single
specimen - in love heart wishes to Mr.
& Mrs. Gray - Ever your affectionate friend
N. D. Ward

My dear Gray

The Dunes - Chase
29 July 1864

I have - at last - got time to write
a letter to you with thanks - & have just
rec'd the card of Mr. Estlin with the pleasing
intelligence that I may hope to see him this
autumn. I expect to begin mine in the
month of August - but after that time - have
no exact agent. - Heard that you & Mr. Gray
will accompany your friend to England
but glad should we be to welcome you
both once more at Chatsworth - Our
journey this year will most prob' be
to Scotland - visiting chiefly those places
to which we can be conveniently steamed -
which will take us - to the Isle of Skye -
several of the lakes - Staffa & Iona etc -

My companion wrote Maria May - She
like Fred & I and no mean sufficient in-
tend the other directing her attention to
English Botany - With wife I hope derive
satisfaction & instruction from their excursion
and I hope expect no small addition to my
natural objects - My garden is getting every
year more attractive from the increasing
growth & health of the trees and shrubs - The
Chionodoxa, Potentilla and several Japanese
Lambs have wintered without injury - as have
likewise Camellia japonica and Azalea
mimos - the latter very beautiful - Many of the
old rare plants & some excluded from ordinary
gardens by the present restricted taste for
Dianthus & Calceolaria &c have been
gladdening the eyes of lovers of botany
for several years - I have added with the
consent of Chelsea Garden - the three largest
horses are quite charming - and I have just
added a couple of sea-going cars of two

closed cars (of ornamental character) one
of them being double - This latter is in
imitation of one very large house constructed
by Mr. Steele of Dublin, in which the temp.
is regulated being higher in winter & colder
in summer - used in the singly closed car
There has not been much use since the temp
was observed - but the therm. - has been 12
degrees lower at noon - With the cars
have prob. the same aspects & are planted
with the same plants - so some useful
results may be effected - We have seen in
the sea-going cars - seeds of *Thunia japonica*
and of several rare Conifers - All these are
curing up & look most promising -

We have just rec'd a letter from Mr.
May - He writes that the Dr. has been again
troubled with his lungs - but not to the same
extent as last year - Dr. & Mr. Hodder are
with them & they have been residing at
the Seven Churches Wicklow - They proceed to

of Gleccrae - the latter one of the wildcats
in all Scotland - On my last visit to Scotl.
several years ago - two young foolhardy persons
lost their lives in this pass - being exposed to
death in the month of Sept. I have wind up
our trip with a most pleasant week in Edinb.
especially in the red town - so many scenes & places
too brief have been immortalized by Scott & Scott.
Wes spent a very pleasant day with Balfour,
and his charming family. The blustery garden
has been suffering much from drought - which has
precluded this year to expect not paralleled
since the last 50 years. - I thank you much for
your offer of plants - but I must beg you not
to send me a single specimen until you have
obtained a better set of things than those most
foolishly sent you last. - Nabb. is now with a
medical friend in the New Forest. There is, I fear
a little hope that he will ever be able to resume
his life. He is however very happy & contented in his
present abode - at Arundel with his son & daughter
was one of his brother pupils at the Edinburgh College
there it is his power to make him comfortable.
I must now conclude with the best love wishes
of two sets of you & Mr. Gray & Melville.
Ever / Your affec. friend

N. B. Ward

My dear Gray

The Poets' Club
Oct. 9. 15.

I have just rec'd. & been at work
on for you my last letter. - The M. - I
have been enjoying my annual holiday this year
in Scotland in company with my son & grand
daughter and Mrs. Melville's election. - The weather was most propitious
for such a journey - We went up whaled water
travelling about 120 miles of Gleann
Bhath - some of us being in the last tide - save
little Will Robson and he attributed his illness
to sea-sickness - but to the stile eggs -
Our first week was spent most pleasantly in the
Isle of Arran most interesting in its geological
features & the wildness & beauty of its scenery.
which is not a little spoiled by the multitude of
the Linster Ducks. Myself not growing most
comfortably with the open air & exposure
during the winter. - From Ardross we steamed up
the Caledonian Canal down the same river
through the Kyle of Bute to Crinan & Oban, from

which latter place we obtained at no moderate elevations the finest & most extensive views of the numerous mountain ranges which give to Scotland its most striking & characteristic feature

Of mountains one of our celebrated writers thus speaks "Of all the sights that nature affords to the eye & mind of man, mountains have always stirred my strongest feelings. I have seen the ocean when it was turned up from the bottom of tempest, and noon was like night with the conflict of the billows and the storm that bore scattered them in mist & from across the sky - I have seen the desert rise around me - calm & still in mid of thousands of towering crags of horror and paralyzed fear, have contemplated these solid pillars coming like the advance of some gigantic city of destruction flying across the wilderness, reden columns flaming with intense fire & roar of death, the sky vaulted with gloom - the earth a furnace - But with me the mountain - in tempest or in calm, whether the throne of the Thunder, or with the evening sun painting its tides and declivities in colours soft in heaven - has been the source of the most sublime sensations - here stands magnitude - giving the instant impression of a power above

man - grandeur that defies decay - antiquity that tells of ages unnumbered - beauty that the touch of time makes only more beautiful - ease, ex-hauſtless for the service of man - strength, imperishable as the globe - the monument of eternity - the lowest emblem of that unchangeable, irresistible Majesty by whom and for whom all things were made" - - -

The first view we obtained of the Scotch mountains was at Blair - in the neighbourhood of which place - at moderate elevations - we began to see a near continuous amphitheatre of mountain ranges - the diameter of which covers the less than a hundred miles - The season of the year, the fine weather were most favourable to the full appreciation and enjoyment of this view - while water the soft, the bold, the rocky landscape was abundantly present in the shape of the rivers Teme - had not mentioned this - the impious effect of the ripe corn & various other crops - on the inimitable sublimity of desolating views - always beautiful - produced by the alterations of cloud & sunshine - From Blair we went through (on the top of Calton) this of the first passes in Scotland - over - that of Awe &

in immense or valuable col. of New
England are extent utterly unavailable
for many purposes of great practical utility.
and is scarcely ever consulted excepting by
Authors. - That enough of this above set
from a number of plants some fine back and
know that he had all that could be spared
certain not so many as I wished but the
fact is that the garden had been so long in a
state of decayable that we have as yet but
few duplicates. - Wish that next year
we may be able to place upon a larger scale
possibly. - If all goes well - of two old masters
and I intend spending 3 or 4 weeks at Heidelberg
with one of the Duffers - who married the
daughter of one of old friends - I do not
know whether there is much of botanical
interest in the adjoining Black Forest - if I
do not meet at this time. I am sure to see some
old friends with new faces. - My little garden is
now a complete wilderness. - My world had known
it again. - We all hope once more to see you and
Prof. Gray. - Do try some. - Nathan whited eyes
wishes I had the gun both. - Believe me ever
Yours affec. - N. D. Ward

My dear Gray

The Peers - 64. 12. 30

I cannot allow the old plants die
without in the name of all - sorrowing over and
all that is dear to you - every man has his losses
of this season. - Many God is not - that, are the
losses of the real dear place may reign in
midland. - Would be much more delighted to
see you quickly here employed. The Party in
exploring the vegetable riches - rendering added
the resources of the Rocky Mountain and other
districts than in acts of mutual destruction.
such a consummation is earnestly to be desired
but how it is to be brought about, I know not.
trust that you will not be disappointed in my
one small result you expected at the end of the war
viz - the abolition of slavery. The dash shot in
parisititans. How is your grand
museum & Herbarium building going on? How
delighted I should be to pay it a visit - and go on a
visit but I am now too old to indulge such
an idea - but must content myself with botanizing
in my own room - I am sorry to tell you that
we have had a sad Christmas. - Our Natty
has had two or three attacks of partial paralysis

and is - I fear - utterly excluded from his profession - in which he was one of the shining lights - As yet no practice prevails in some of the small Hospitals - & possibly in some of our towns - The Assistant Surgeons have all the hard work of the hospitals to do - without the slightest remuneration in any way - and it was the case with Dr. - he has a pecuniary advantage over his profession & his associations in the discharge of his duty - he gets double the number of patients & attendants & has moreover a number of operations in the hospital in cases which are out of his express care by County Surgeons - He has repeatedly had in one days visit to see nearly 200 patients & to perform 3 or 4 amputations & this went on for eleven years - no wonder he broke down - You - however - matter of great consolation to recall that he has fallen a victim to an overstrained sense of duty - and not as is too often the case - to vicious or immoral habits - Taylor has never had such hard

work though upon him and is in a fair way of attaining a high position as an M.D. I think I mentioned to you in my last - that he had paid a premium of \$1000 at his first for which he had rec'd 150 guineas - I am going on with my "Anabasis" and I am glad and I am doing some good - I believe that the local collections should be arranged after a fashion this an inhaledant for a County Sheriff might see the entire vegetation of the surrounding woods or commons or hedge banks at a glance and be enabled to form a probable guess of the character of any given locality by the greater or less importance of the bushes & growing on the soils & rocks - I returned moreover to my zones - I enabled to obtain some reliable information as to the growth of each & with him the periods of the flowering & fruiting of the wild vegetation upon either point however - I need not apologize to you - who know so much more than I - the practical bearings of this specimen

slavery however will no longer be a blot upon your
escutcheon. I hope you will be enabled in your next
to give me hopeful accounts of general reconciliation.
As far as I have seen this town is a very desirable
place of abode for persons of limited means but we yet
find off-rental nolitaria pursue - the same rents -
chiefly musical are within the reach of everybody - the
charge at Marheim - one of the first towns in Germany as
regards the excellence of the Opera is - 25. where in London
we pay 10-0 - and the hours far more reasonable from 6 to
9 o'clock. In the grounds of the Castle a Pianoforte band
will play from 3 to 10 - with an interval of an hour from
7 to 8 - and this is open to all who choose to enjoy it
sub diu & those who do not have an instrument to affix
room at the rate of 2 p. head - The piano in the
instrumental music is fully occupied in various parts of
the well wooded Castle grounds - where the Nightingale
in shadowed covert has

takes her nocturnal note

The education for boys is just complete most
economical - My brother three sons who go the Lyceum
and are taught English French Latin History &c
obtain these advantages at a cost of £.3. p. ann. each.
I have no hesitation in predicting eminence that these
three boys - would be at an ^{age} of three of our Eton boys of the
same age - But I must conclude & hoping again to
have your forgiveness & with Ann & Charlotte's best love
to you & Mr. Gray - Believing me ever

Yours affec. friend
N. D. Ward



K. & J. Schubert & Son
1860

ELBARDT'S SCHULE
LEIPZIG JAN

1860

My dear Gray

in Arlage -
Heidelberg,

29 Sept 1865

With due & many apologies for a long
silence but though I sit upon your misery - my
attention to the state of my health which has been
for some time past most uncertain. Three months ago
I had a severe attack of Bronchitis confining me to the
house for a month - ably & faithfully I'm told I had three
in four weeks was in high feather with some of the members
of our concurring body at the R.R. in the subject of
Chelsea Garden. By the bye the constipation of some
of our young bodies is most defective - seniority
alone settles the point - I can imagine that old
men who have not been so well taught in their early
youth set themselves against an expenditure of money

Invain did I urge upon them the glorious example of the
generosity shown by you in giving to your country your
grand collection and of your brotherhood in finding
a fitting habitat for them. - Had half a dozen bottles to
light before I gained the day besides the minor ones of
which I have already spoken and have completely prostrated
me - and I have been compelled to come here to recruit
Ann & Charlotte with me. - Pleasant staying with one
of the kindest Professors whose wife I brought into
the world and where we have every English comfort, which
is not always attainable in a German house. - I am now
thank God, better and able to enjoy botanical rambles.
Although Heidelberg is not famous for the richness or
variety of its flora - nine tenths of the species being
natives of Great Britain & some of our rarest plants
are here most abundant. *Salvia pratensis* is the great
ponent of all grassy slopes. *Berrya Barkeri* - *Lycium*
Nicotiana tabacum in the woods - as to *Tulene* *hastata* &
S. Bistorta - *Primulænum* *bifolium* is abundant in while

of species not indigenous with us - the most notable are
Cistus Sagittalis & *Coronilla* *varia* occupying the places
which in England are filled with *Alpinocarpis* & *Thlaspi*
Spissæ *Arvensis* & *S. Almaria* - *Castilleja* *Canescens* from
Stachys *reducta* - *Cephalaria* *sticta* & *hetera* But I need
not further enlarge on this as - do better you know far
more of the flora of Heidelberg than I do - The storm here,
as elsewhere has been exceeding severe - Dr. Burchells
me - that winter ended with March - & summer commenced
in April - since we have been here now 3 weeks the heat
has been nearly above the average and all vegetation much
greener than usual - Three fireflies crossed our path
last evening - they do not usually make their appearance
until this date - I suppose you have heard that Dr. Gray
was compelled to go to Accadia St. Iowanda for the
benefit of his health. The last news I heard of him -
through Mother was not favorable - I am expecting daily
a letter from him and shall it may give better accounts.
I have heard little or nothing of American news of late. I
know of nothing which excited more horror & detestation
in England than the murder of Lincoln - One can hardly
conceive the Southernness as a body to have manifested at
it - as it is most certain they had nothing to do with it -
much to lose if this had went - The records which I
have heard are so conflicting that it is almost impossible
to speak at the truth. My God that anyone concerned in
this horrid affair - whatever their condition may be
brought to a high punishment - The punishment of

totally been covered. Last foot of most
of walls with an almost perpendicular bed of
loam - peat & manure. Galvanized wire
iron rods. This bed projects from the wall
about a foot at its base - & about 4 inches
at the upper part. This bed is intended
chiefly for the cultivation of alpine plants
small balls decked out in space enough
to accommodate a thousand species of alpine
vegetation. In the following of numerous mosses
& male ferns - where he specific work I can
easily supply. It is already looking well
would be most attractive in the spring, with
a hundred of flowers of Crocus - Leucojum
Silia - Galanthus - Primulas - Saxifages & the
As it is close to the pond, it can always be
kept well watered in dry weather. But enough
of this. You will be glad to hear that the
last few weeks are favourable & that J.
Mother is now recovering from the severe attack
of rheumatic fever which he had after the
death of his dear Father. - He hereunto
in love & best wishes for many happy
years & few years to you & Mrs. Gray
and - Your affec. Son N. Ward

My dear Gray

The Texas -

June - 65 A.D.

We are quite longing to hear
from you again - so long a time having
elapsed since we had a letter. We trust,
however, that no news is good news &
that you & Mrs. Gray are quite well. -
I wish it were in my power to give you a
favorable account of my dear Son Ned.
He appeared up to the last 3 or 4 weeks
to be gradually gaining ground. - But all
suddenly under the care of a Physician in the
New Ernest - who had been a brother pupil
with him at the London Hospital - but he
lately had a severe fit - from which he
has only partially rallied and there is too
much reason to fear that his brain is
irrecoverably damaged. We have now no

hope of his ever being himself again.
I am thankful to tell you that my health continues
pretty well for a good man (in his 75th year) & that the
rest of my family are all in good health, & that
my travelling with some was of great service
to Ann & Charlotte & while with me and
my garden & laboratory were enriched with many
interesting plants, indeed, of which, I obtained
the photographs & autographs of all the eminent
professors of the University, among them Turner
& Herschell of Solar Astronomy. Our horses
nimbly led us into most beautiful scenery &
we had the good fortune to be accompanied
on all occasions by the daughter of an English
Clergyman who with her Sister had been
living at Kiedz for above 12 years & well under-
stood the language of the country by which
we obtained much interest information from
the peasants, which we should have lost but
for her company. - Our evenings were frequently
spent in the Castle grounds listening to a

good band on the intervals between the
prices - strolling with the lady counts to be
regaled with the still sweeter song of the
Nightingale - and the brilliancy of the fire-
flies - which made their appearance this
year owing I suppose to the great heat in the
last week of May - three weeks earlier than
ordinary. We are in great trouble at our
Hallam Blacksmiths which the Apothecaries
have held for more than two centuries. It
is fully expected that we shall be turned
out by the Chatham & Dover Railway who
announced their claim on a Capital of
£750,000 which has since been extended to
near nine millions. At present we know
not where to go - and to add to our distress
I have just heard that the Chelms Garden is to
be swept clean away by the new River
Embankment scheme. So my time is pretty
well taken up. - I have however, a little
leisure for my garden which - small as it is,
affords me abundant amusement. I have

I have but little to tell you. My greatest delight is to receive your charming views. To say nothing of your box of plants - which arrived here at Xmas - but which I could not receive until nearly a month after its arrival in consequence of the Capt. of the vessel having placed it in the hold of the ship.

With most of the plants this will not do to endanger their growth - but I fear much for the *Lyc. dendroides* - all the roots having decayed. & the entire mass of roots & rock blocks being dry - The late Dr. Gray of Boston - Third attorney had a large fern patch of this lichen plant in the open air at Wmbley. I was told that it was a dwarf *fern* from the U.S.

Though I mentioned in my last that I had made a wall bed at the bottom of garden by means of iron rods & galvanized wire. About 30 ft. of wall - this could afford a large space for alpine plants in - The thickness of the bed at bottom is one foot - diminishes to 6 inches at top. It is already covered with *Leucopis revoluta* - *Julianaea* - *Urtica pilosa* & *Urtica dioica*. Here you begin to notice a great ornament. Well I must conclude with the best love of all to your W^m Gray
Ever Yours most affec^t W. W.

Will you be able to join our good Champe on up by May - I will meet many friends. Wm. Gray you are far along as you please there
My dear Gray

6.2.15.

Yours & all have heard from me ere this - but my time & thoughts have been and still are occupied with the fatal illness of my dear Son Wm. You know but possibly have forgotten that he had broken down & given over to the execution of his various duties at the London Hospital - where his regular work consisted of two weekly visits to the Unit - in each of which he had to prescribe for 150 or 160 patients - independent of the bed he was repeated called up in the night & at uncertain hours in cases of emergency. This work he had performed reluctantly for 13 years - about 2 years since symptoms of paralysis were visible that extant that he was compelled to resign his his profession

and it was until the last three months, when
the rest of his old brother pupils - Dr.
Brookens - so loved in the heart of the New-
York and from whom he rec'd. the kind
attention and improved so much that there
was really some hope that he might have
been enabled to have spent the remainder
of his days in the bosom of his family by
alleging he was now dead load. But
it was otherwise ordained and doubtless
for his good. - It has been a sore trial
to us - but - God's will be done. - He was
beloved and lamented, by all who knew
him. - He died at Leavenworth in Leavenworth -

On Sunday - a very dear old friend - Professor
Brooks - died from Prostratio. Solace mis-
sion greatly. - He and I were in the service
of the Soc'y of App'resion & had sat at the
same table every instant from more than
a dozen years. - He - as you know - was a
great Chemist and used to obtain from
him the solution of all my chemical doubts -

I have doubtless heard ere this - that our
dear friend Henry has had a return of Henry
such an occurrence so much to be desired in
this weak condition. - Our last accounts
however were more favorable. - Whether I
have not seen since his illness. He writes re-
garding that he is quite overwhelmed with
work - both of his dear Father's this own -
Little Walter his son - spent a fat night
with us at Adams. He is a very nice lad
but does not seem to like much company.
We had a most pleasant visit from this
of your Countrymen - Dr. Green and Walter
was grieved to hear from the latter - from his
personal knowledge - that many of the prisoners
that in the war had been most atrociously
treated by the Confederates - Dr. Green
is a old favorite of ours - and we are
quite as much pleased with Dr. W. whose
varied acquirements & gentlemanly manner
render his company most delightful. - We are
expecting to see them again in a week or two
in their return from Hills - Of botanical news -

subject in which I. much interested. in
the applicⁿ of the cloed cars to the relief of
the poor in smoky town localities - I am
quite certain that much might be done
if some of the gross darkness which covers the
people could be removed. Several instances
have come under my cognizance - where a lone
plant - engulded by a cloed car has been
the means - undetected - of saving the pursued
to infatuation. I wish I knew a W^r Peabody,
that I might persuade him to insist on the
use of culturd. plants either in the open
air or otherwise - in the buildings he is so
magnificently providing for^t poor of London.
My daughters are tolerably well - Ann is now
better but has been troubled with rheumatism
Stomach & Conk - the latter I believe owing to
the miserable wet & cold weather we have had.
Good health for your dear health.

Yester evening wrote to you. ¹ ²
Believe me ever
Your affec^t friend
D. S. Gray

W. D. Ward

Ward
Larbridge Wales
20 Oct 1866.

My dear Gray

I have in the first place to
thank you most warmly for your advice
of our dear friend - for the best -
is yet appears. Do much cannot be
said in his favor - I had known him
most intimately however - think but fifteen
and had the great satisfaction of seeing him
for 24 hours - 2 days before his death.

I have seen many a dying face - but never
one in which the peace of God alone
was brightly on the countenance.

He alone smiled - while around him wept -
His son has been one of great trouble and
distress to us all - since the death of Ward
then of his wife - leaving 7 children - followed
by the death of Ward - and a most severe
fall half of the attack of congestion of the
lungs in Stephen - keeping him nearly 6
months out of practice - which he has only

just resumed. I also have suffered
much from spasmodic cough - I spent all
August 2 part of Sept at Glacombe.

It is almost constantly wet. Tides
of course in having near me. The Rev W. S. Moore
one of Hawey's great naturalists to the Magd.
Britannica. Mr. M. has also a very fine
collection of the Birds of N. & S. Devon. with
several species of which he is well acquainted.

Great pleasure to pay a visit to Miss Griffiths
surviving daughter of Mr. G. the Geologist.
Miss G. is a young & very fair
little creature in the lines of Nath. Dodson
the village of Trestihoe. Her dress is
so poor & so not justic. Her cottage is
situated on an elevated mountain moor
so resplendent with heath burns. Three or
four species of heath burn about 200 ft. above
a rapid trout & salmon stream which skirts
her property for nearly 3 miles emptying itself
into the Bristol Channel at Redruth marking

the nose behind her abode rises up about 700
ft. above the level of the sea & the summit
of the ridge is obtained a fine panoramic view
of both Wales & Cornwall twelve miles of
the Bristol Channel. In all other directions
she is surrounded by noble wooded hills rising
from 3 to 600 ft. in height. The trees are in all
stages of growth but no autumnal tints were
visible - with the exception of a large spruce
wood abounding Oaks. The leaves & lichens were
most charming with tints of all colors from
pink to scarlet or crimson. The heath flora
consisted of her garden so such as the adult
of the Cuparia & growth of Myrtles, Daphneas -
ones of all kinds & very many natives of our
Antarctic colonies. Outside the margin of the little
moor was covered with Wallerbergia heather -
and other lovely bog plants. The greatest & her
greatest enjoyment in the place is the great
M. the upper. There being but two extensive
valleys "Happy Valley" with the hills in
length - my narrow & steep & rocky -
have been thinking of writing a paper on a

plants to succeed well - by - in my case,
keeping them covered tight, during the
winter - thereby prevent the shrinking
injurious effects of winter sunshie

A young friend of mine a Mr Lazarus
is just appointed Botanist to the exploring
expedition to Palestine - & he will I am
sure not disappoint the expectations of those
who send - He is D.D. of Trinity College
Cambridge & is going to take his Degree
as M.D.

I must now conclude with the good
news of Stephen's perfect restoration to health
and to the exercise of his profession after nearly
months confinement

Allow me to close with the best
wishes of the season to you & Mrs Gray & to
all that are dear to you

Ever your affec. friend

W. Ward
Mr. & Dr. Deas have had
several other friends



My dear Sir

The Yours

W. Ward

On the last fortnight I have been
confined to this room - in consequence
of a severe attack of Bronchitis from over-
work. The fact is that I am now in my
7th year & cannot bear the fatigue of my
prof. duties in a wide dispensing circle
of old patients and should be but too
glad to enjoy the Sabbath of life in some
quiet country cottage - but this cannot be
between ourselves. Doctor has been a
great drawback in the acquisition of wealth
but three years have elapsed since my
first cars arrived in New Holland - for
how what has been effected by then since

Have never rec'd the slightest acknowledg'd
or thanks from any ^{of} public Body in this
nearly indepen'd. of having had hundred
of right & the Thorsas & letters of enquiry to
answer and all my time sometimes & more than
I - occupied in such visits - sum in too
many cases idle & ignorant people who
were tired of their lives for want of some thing
to do. - But were no time to come over
again - I shined so precisely as I have done -
indeeding that my life - though one of constant
labour - has been one of great delight - sum-
times I intercede with the works of God -
mind communion & fellowship with men -
the yourself - & slaves & many others - who
are able to appreciate their works at something
like their true value. - The enfraged & ignorant
themselves not allowing their proper value - They
desire me summing a more & more interest.
Character - as they are being added to - esp.
those of mountainous and alpine countries

The collection of Liverpines from that
part of the Neelgherries devoted to the
cultivation of Cinnamom is tolerably extensive
owing to the kindness of Dr. Wright.

Beholding like the Bocconias & the horizontal
branches of the trees - with the fine Lycop-
odiums & ferns pendent from their under-
sides - Marvellous small Orchidea species
- in most of the cases on the bushes are most loath-
some species of Piperaceas & their
varieties to the whole. - But I need say ho-
wever to one who knows far better than I
that these things must be - by great
misfortune however is my little garden
(an 8 or 10 acres) containing me of my kind
hinds - yourself except among the number
of the poor & the last year are doing well. The
worst weather if it suited nothing else -
has been most appropriate for them - I
am however getting a number of Alpine

Sec of Apothecaries - thus losing 200 guineas a year
There is no reason to care for all this personally,
as I never can become a burden to friends - as I
am one of eight surviving members of a family
divided among us - £150. a year - and as each
member dies his share goes to the survivors
so that should I be the surviving man I should
receive that whole as long as I live - and I am
the junior man of the lot - but not the last - but
to be the first to depart - in which case my
dear Daughter will be but scarcely provided for -
as my clerical cases have never provided for me -
Dear Mr. Ward -
On the Marks of the pasties that interested us all
only all of us some time has been occupied in receiving
visits - & answering letters resp^d from - you
shall no more be troubled thus. The private trouble
to come to after one agreeable home - Your kind
letter goes up to me. Of once more seeing you among
us - Mary - or me - rather - beg you to do Mr. Gray
in one speech to you on your arrival in London -
you are sure that we will do all in our power to
make you comfortable - and you should do just as you
please in every thing. Stephen & his little girl are
well & write with us all kind love regards
to you & Mr. Gray - Ever, my dear Gray -
on my 77th year - Your affec^d & respcnd^d friend
N. D. Ward -

The last from Mr. Ward [24 April 1868]
The Deans 24 A.D.
1868

My dear Gray

I had almost ceased to hope for another
letter from you when I rec'd. your last friend
note and book which interested me that I always
asked in my brother's life - who - next to dear Rose
had the highest in my affections - I felt the
loss more the more - the much as I am but just
recovering from a most severe attack of bronchitis
and had not been able to leave my first floor for
four months - This has impelled me to resign my
post as Dean^d to our Soc^d - Merely losing 200 guineas
p. ann - but certainly gaining much since for
health - as my doctors all the late were rather
severe - compelling me to be present in all weathers
instructing me to stay in and keep dry in my
attempt to retain the office of Chelsea Garden
and otherwise upholding the reputation of our Soc^d
in their endeavors to exalt the medical students
& higher bachelors - than those educated by S. S. & C. -
Enclose you a syllabus of a course lectures of great
interest - the subject respecting in the researches of
Burrard & Krichhoff of Heidelberg where a 3^d in
made on my part there 5 years since where Anazeph
& D. Prognathis were kindly given to me -

I have abundant amusement during my confinement - busy in collecting materials for "Aspects of Nature & their Teachings" - but the more I do, the more remains to do - and I fear that they will come to nothing. Now I read with pleasure & would give me the greatest pleasure to raise the devout affections of my poorer neighbors & endeavor to inspire them the power wisdom & goodness of God in creation - and to prove to them that man cannot go - where universal law, not reigns around. - The births of the misery of the poor arise from their total ignorance of God & his works. - More than a year ago Dr. Barker of Bedford - wrote to a Mr. ne for a portrait to be published in a work on "Clement Medicine" to which I directed him. - His son however would take no answer & since but had the portrait - and wrote out the memoir from some scanty materials I had sent him & which I had not made more voluminous thinking I should see the B.M. before it was printed - however by the death of Dr. Barker. &c. which some months elapsed - when I

rec'd a notice that Dr. D. Webster would continue the work - they after months further delayed - when I rec'd another M. followed it without intervals by 3 or 4 more - not rec'ing a name without I concluded that it was nothing but the light - At last - to my wonder it came out - the poor Doctor not having lived out one a copy of the was about the publisher - & which had been written by his predecessor - All this is to meet the heresies & misrepresentations to you - but the memoir is very defective on the point - viz. that it does not explain as I meant it to have done - the reason why I have done so little - or next to nothing - for Botanical science. The fact is - that my lot was cast in a district of this country where more impoverished & wild - & waste - from my gradually increasing family were increasing in an inverse ratio to my life - was for more than 15 years - one of unremitting labor, so that I might keep up my health as I had said of his Apothecary & the trifling wants of every day.

The last 12 mos. I supplied - Now this is to a certain degree independent - I am offering a lot of £ 250 p. ann. in consequence of depreciation of the stock. whenever I can was derived and a continued loss of some four months has compelled me to resign the post of Pres. to the